Vazhakulam P.O., Muvattupuzha
Ernakulam Dist., Kerala - 686 670
Tel: 0485 2262211 / 44
Email:vjcet@vjcet.org
www.vjcet.org

Metric 1.1.2

The institution adheres to the academic calendar including for the conduct of continuous Internal evaluation

Table of Contents

Sl.No	Contents	Page No
1	Academic calendar	2
2	HOD meeting Minutes	23
3	Semester plan	28
4	Series Exam Time Table	30
5	Course Information Sheet - Theory	32
6	Course Diary - Theory	33
7	Series Question paper and answer key	56
8	Series Exam Answer Sheet	63
9	Students' List	65
10	Students Examination Eligibility Details	67
11	Assignment	76
12	Tutorial	81
13	Syllabus – Lab	87
14	Lab Cycle	91
15	Lab Exam Time Table	93
16	Course Diary – Lab	95
17	Answer Sheet – Lab	99
18	Mini Project evaluation	101
19	Mini Project Report	110
20	Seminar Evaluation	113

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

CET campus, Thiruvananthapuram - 695 016
Ph: 0471 2598122; Fax: 2598522 www. ktu.edu.in Email: university@ktu.edu.in

KTU/AC1/582/2022 13.10.2022

CIRCULAR

Sub: Academic Calendar of Odd Semesters for various UG/PG Programmes - Published - Circulated - Reg.

The Academic Calendar of odd semesters (October 2022 to February 2023) for **MBA S1, MCA S1, Int MCA S1, M.Tech S1, M.Plan S1, M.Arch S1, B.Tech S1, B.Arch S1, BHMCT S1, B.Des S1 & B.Des S7** is published herewith.

Dr. Shalij P.R
Dean (Academic) in Charge

1. Principals of all affiliated Institutions.
2. Controller of Examinations
3. KTU Support.
4. AD-IT (for publishing in the website).

* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - October 2022 to February 2023

MBA S1, MCA S1, Int MCA S1, M.Tech S1, M.Plan S1, M.Arch S1, B.Tech S1, B.Arch S1, BHMCT S1, B.Des S1, B.Des S7

Oct-22				Nov-22				Dec-22			
Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	
Sat	1			Tue	1		19	Thu	1		44
Sun	2	Gandhi Jayanthi		Wed	2		20	Fri	2		45
Mon	3			Thu	3	Course Selection and Mapping Begins for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	21	Sat	3	Second Series test to be completed fo B.Des S7 Exam Registration ends for MBA S1, MCA S1, Int MCA S1, M.Tech S1, M.Plan S1, M.Arch S1, B.Tech S1, B.Arch S1, BHMCT S1, B.Des S1, B.Des S7	46
Tue	4	Mahanavami		Fri	4	First CC Meeting for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	22	Sun	4		
Wed	5	Vijayadasami		Sat	5	First Series test to be completed for B.Des S7	23	Mon	5		47
Thu	6			Sun	6			Tue	6		48
Fri	7			Mon	7	Course Selection and Mapping Ends for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	24	Wed	7		49
Sat	8	Milad-i-sherif		Tue	8		25	Thu	8		50
Sun	9			Wed	9		26	Fri	9	First Series test to be completed for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	51
Mon	10	Commencement of classes for MBA S1, MCA S1, Int MCA S1, B.Des S7	1	Thu	10		27	Sat	10		
Tue	11		2	Fri	11		28	Sun	11		
Wed	12		3	Sat	12			Mon	12		52
Thu	13		4	Sun	13			Tue	13		53
Fri	14		5	Mon	14		29	Wed	14	Publish IA Marks for B.Des S7	54
Sat	15		6	Tue	15		30	Thu	15	Class Ends Publish Attendance for B.Des S7	55
Sun	16			Wed	16	First Series test to be completed for MBA S1, MCA S1, Int MCA S1	31	Fri	16		56
Mon	17	Course Selection and Mapping Begins for MBA S1, MCA S1, Int MCA S1, B.Des S7	7	Thu	17		32	Sat	17		57
Tue	18	First CC Meeting for MBA S1, MCA S1, Int MCA S1, B.Des S7	8	Fri	18		33	Sun	18		
Wed	19	Course Selection and Mapping Ends for MBA S1, MCA S1, Int MCA S1, B.Des S7	9	Sat	19		34	Mon	19		58
Thu	20		10	Sun	20			Tue	20	Second CC Meeting for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	59
Fri	21		11	Mon	21		35	Wed	21		60
Sat	22		12	Tue	22		36	Thu	22		61
Sun	23			Wed	23		37	Fri	23		62
Mon	24	Deepavali		Thu	24	Second CC Meeting for MBA S1, MCA S1, Int MCA S1, B.Des S7	38	Sat	24		

Tue	25	**Commencement of classes for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1** **Student Induction Training Pro ramme be ins for S1 B.Tech**	13	Fri	25		39	**Sun**	**25**	**Christmas**	
Wed	26		14	Sat	26		40	**Mon**	**26**		
Thu	27		15	**Sun**	**27**			**Tue**	**27**		
Fri	28		16	Mon	28	**Exam Registration begins for MBA S1, MCA S1, Int MCA S1, M.Tech S1, M.Plan S1, M.Arch S1, B.Tech S1, B.Arch S1, BHMCT S1, B.Des S1, B.Des S7**	41	**Wed**	**28**		
Sat	29	**Student Induction Training Programme ends for S1 B.Tech**	17	Tue	29		42	**Thu**	**29**		
Sun	**30**			Wed	30		43	**Fri**	**30**		
Mon	31		18					**Sat**	**31**		

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - October 2022 to February 2023

MBA S1, MCA S1, Int MCA S1, M.Tech S1, M.Plan S1, M.Arch S1, B.Tech S1, B.Arch S1, BHMCT S1, B.Des S1, B.Des S7

Jan-23				Feb-23				Mar-23			
Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class
Sun	1			Wed	1	Third CC Meeting for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	86	Wed	1		
Mon	2	Mannam Jayanthi		Thu	2		87	Thu	2		
Tue	3	Commencement of End Semester Examination for B.Des S7	63	Fri	3	Commencement of End Semester Examination for MBA S1, MCA S1, Int MCA S1	88	Fri	3		
Wed	4		64	Sat	4		89	Sat	4		
Thu	5		65	Sun	5			Sun	5		
Fri	6		66	Mon	6		90	Mon	6		
Sat	7	Second Series test to be completed for MBA S1, MCA S1, Int MCA S1	67	Tue	7	Publish IA Marks for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	91	Tue	7		
Sun	8			Wed	8	Class Ends Publish Attendance for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	92	Wed	8		
Mon	9		68	Thu	9		93	Thu	9		
Tue	10		69	Fri	10		94	Fri	10		
Wed	11		70	Sat	11			Sat	11		
Thu	12		71	Sun	12			Sun	12		
Fri	13	Third CC Meeting for MBA S1, MCA S1, Int MCA S1	72	Mon	13		95	Mon	13		
Sat	14			Tue	14		96	Tue	14		
Sun	15			Wed	15		97	Wed	15		
Mon	16		73	Thu	16		98	Thu	16		
Tue	17		74	Fri	17		99	Fri	17		
Wed	18		75	Sat	18	Shivaratri		Sat	18		
Thu	19		76	Sun	19			Sun	19		
Fri	20		77	Mon	20	Commencement of End Semester Examination for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	100	Mon	20		
Sat	21		78	Tue	21		101	Tue	21		
Sun	22			Wed	22		102	Wed	22		
Mon	23	Publish IA Marks for MBA S1, MCA S1, Int MCA S1	79	Thu	23		103	Thu	23		
Tue	24	Class Ends Publish Attendance for MBA S1, MCA S1, Int MCA S1	80	Fri	24		104	Fri	24		
Wed	25	Second Series test to be completed for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	81	Sat	25		105	Sat	25		
Thu	26	Republic Day		Sun	26			Sun	26		
Fri	27		82	Mon	27		106	Mon	27		
Sat	28		83	Tue	28		107	Tue	28		
								Wed	29		
			84					Thu	30		
			85					Fri	31		

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - October 2022 to February 2023

MBA S1, MCA S1, Int MCA S1, M.Tech S1, M.Plan S1, M.Arch S1, B.Tech S1, B.Arch S1, BHMCT S1, B.Des S1, B.Des S7

Odd Semester(2022-2023)

Sl.No	Important Events	Important Dates
1	Commencement of classes for MBA S1, MCA S1, Int MCA S1, B.Des S7	10-10-2022
2	Commencement of classes for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	25-10-2022
3	Student Induction Training Programme for S1 B.Tech	25-10-2022 to 29-10-2022
4	First and Second CC Meetings for MBA S1, MCA S1, Int MCA S1, B.Des S7	18-10-2022, 24-11-2022
5	Third CC Meeting for MBA S1, MCA S1, Int MCA S1	13-01-2023
6	CC Meetings for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	04-11-2022, 20-12-2022, 01-02-2023
7	Course Selection and Mapping Begins for MBA S1, MCA S1, Int MCA S1, B.Des S7	17-10-2022
8	Course Selection and Mapping Ends for MBA S1, MCA S1, Int MCA S1, B.Des S7	19-10-2022
9	Course Selection and Mapping Begins for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	03-11-2022
10	Course Selection and Mapping Ends for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	07-11-2022
11	First Series test to be completed for B.Des S7	05-11-2022
12	First Series test to be completed for MBA S1, MCA S1, Int MCA S1	16-11-2022
13	First Series test to be completed for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	09-12-2022
14	Exam Registration begins for MBA S1, MCA S1, Int MCA S1, M.Tech S1, M.Plan S1, M.Arch S1, B.Tech S1, B.Arch S1, BHMCT S1, B.Des S1, B.Des S7	28-11-2022
15	Exam Registration ends for MBA S1, MCA S1, Int MCA S1, M.Tech S1, M.Plan S1, M.Arch S1, B.Tech S1, B.Arch S1, BHMCT S1, B.Des S1, B.Des S7	03-12-2022
16	Second Series test to be completed fo B.Des S7	03-12-2022
17	Second Series test to be completed for MBA S1, MCA S1, Int MCA S1	07-01-2023
18	Second Series test to be completed for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	25-01-2023
19	Publish IA Marks for B.Des S7	14-12-2022
20	Class Ends Publish Attendance for B.Des S7	15-12-2022
21	Publish IA Marks for MBA S1, MCA S1, Int MCA S1	23-01-2023
22	Class Ends Publish Attendance for MBA S1, MCA S1, Int MCA S1	24-01-2023
23	Publish IA Marks for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	07-02-2023
24	Class Ends Publish Attendance for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	08-02-2023
25	Commencement of End Semester Examination for B.Des S7	03-01-2023
26	Commencement of End Semester Examination for MBA S1, MCA S1, Int MCA S1	03-02-2023
27	Commencement of End Semester Examination for M.Tech S1, M.Arch S1, M.Plan S1, B.Tech S1, B.Arch S1, B.Des S1, BHMCT S1	20-02-2023

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - September 2022 to January 2023

B.Tech S7/S5/S3, BHMCT S5/S3, M.Plan S3, M.Arch S3

Sep-22				Oct-22				Nov-22			
Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class
Thu	1			Sat	1		17	Tue	1		39
Fri	2			Sun	2	Gandhi Jayanthi		Wed	2		40
Sat	3			Mon	3		18	Thu	3		41
Sun	4			Tue	4	Mahanavami		Fri	4		42
Mon	5			Wed	5	Vijayadasami		Sat	5		43
Tue	6			Thu	6		19	Sun	6		
Wed	7	First Onam		Fri	7		20	Mon	7		44
Thu	8	Thiruvonam		Sat	8	Milad-i-sherif		Tue	8		45
Fri	9	Third Onam		Sun	9			Wed	9		46
Sat	10	Fourth Onam		Mon	10		21	Thu	10		47
Sun	11			Tue	11		22	Fri	11	First Series test to be completed for B.Tech S7/S5/S3,BHMCT S5/S3, M.Arch S3, M.Plan S3	48
Mon	12	Commencement of classes for B.Tech S3, BHMCT S5	1	Wed	12	Course Selection and Mapping Begins for B.Tech S5, BHMCT S3,M.Arch S3, M.Plan S3	23	Sat	12		
Tue	13	Commencement of classes for B.Tech S7	2	Thu	13		24	Sun	13		
Wed	14		3	Fri	14		25	Mon	14		49
Thu	15		4	Sat	15		26	Tue	15		50
Fri	16		5	Sun	16			Wed	16		51
Sat	17		6	Mon	17		27	Thu	17		52
Sun	18			Tue	18	Course Selection and Mapping Ends for B.Tech S5, BHMCT S3,M.Arch S3, M.Plan S3	28	Fri	18		53
Mon	19	Commencement of classes for B.Tech S5, M.Arch S3, M.Plan S3	7	Wed	19		29	Sat	19		54
Tue	20		8	Thu	20		30	Sun	20		
Wed	21	Sree Narayana Guru Samadhi Day		Fri	21		31	Mon	21	Exam Registration begins for B.Tech S7/S5/S3,BHMCT S5/S3,M.Arch S3, M.Plan S3	55
Thu	22	Commencement of classes for BHMCT S3	9	Sat	22		32	Tue	22	Second CC Meetings for B.Tech S7/S5/S3,BHMCT S5/S3,M.Arch S3,	56
Fri	23		10	Sun	23			Wed	23		57
Sat	24		11	Mon	24	Deepavali		Thu	24		58
Sun	25			Tue	25		33	Fri	25		59
Mon	26	Course Selection and Mapping Begins for B.Tech S7/S3, BHMCT S5	12	Wed	26		34	Sat	26		60
Tue	27	First CC Meetings for B.Tech S7/S5/S3,BHMCT S5/S3, M.Arch S3, M.Plan S3	13	Thu	27		35	Sun	27		
Wed	28		14	Fri	28		36	Mon	28		61
Thu	29		15	Sat	29		37	Tue	29		62
Fri	30	Course Selection and Mapping Ends for B.Tech S7/S3, BHMCT S5	16	Sun	30			Wed	30	Exam Registration ends for B.Tech S7/S5/S3,BHMCT S5/S3,M.Arch S3, M.Plan S3	63
				Mon	31		38				

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - September 2022 to January 2023

B.Tech S7/S5/S3, BHMCT S5/S3, M.Plan S3, M.Arch S3

Dec-22				Jan-23			
Days	Date	Description		Days	Date	Description	Class
Thu	1		64	Sun	1		
Fri	2		65	Mon	2	Mannam Jayanthi	
Sat	3		66	Tue	3	Third CC Meetings for B.Tech S5, BHMCT S3,M.Arch S3, M.Plan S3 Commencement of End Semester Examination for B.Tech S3, BHMCT S5	83
Sun	4			Wed	4	Commencement of End Semester Examination for B.Tech S7	84
Mon	5		67	Thu	5		85
Tue	6		68	Fri	6	Publish IA Marks for B.Tech S5,BHMCT S3, M.Arch S3, M.Plan S3	86
Wed	7		69	Sat	7	Class Ends Publish Attendance for B.Tech S5,BHMCT S3, M.Arch S3, M.Plan S3	87
Thu	8		70	Sun	8		
Fri	9	Second Series test to be completed for B.Tech S7/S3, BHMCT S5	71	Mon	9		88
Sat	10			Tue	10		89
Sun	11			Wed	11		90
Mon	12		72	Thu	12		91
Tue	13		73	Fri	13		92
Wed	14	Second Series test to be completed for B.Tech S5, BHMCT S3,M.Arch S3, M.Plan S3	74	Sat	14		
Thu	15		75	Sun	15		
Fri	16		76	Mon	16	Commencement of End Semester Examination for B.Tech S5,BHMCT S3, M.Arch S3, M.Plan S3	93
Sat	17	Third CC Meetings for B.Tech S7/S3, BHMCT S5	77	Tue	17		94
Sun	18			Wed	18		95
Mon	19		78	Thu	19		96
Tue	20	Publish IA Marks for B.Tech S3, BHMCT S5	79	Fri	20		97
Wed	21	Class Ends Publish Attendance for B.Tech S3, BHMCT S5	80	Sat	21		98
Thu	22	Publish IA Marks for B.Tech S7	81	Sun	22		
Fri	23	Class Ends Publish Attendance for B.Tech S7	82	Mon	23		
Sat	24			Tue	24		
Sun	25	Christmas		Wed	25		
Mon	26			Thu	26	Republic Day	
Tue	27			Fri	27		
Wed	28			Sat	28		
Thu	29			Sun	29		
Fri	30			Mon	30		
Sat	31			Tue	31		

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - September 2022 to January 2023

B.Tech S7/S5/S3, BHMCT S5/S3, M.Plan S3, M.Arch S3

Odd Semester(2022-2023)

Sl.No	Important Events	Important Dates
1	Commencement of classes for B.Tech S3, BHMCT S5	12-09-2022
2	Commencement of classes for B.Tech S7	13-09-2022
3	Commencement of classes for B.Tech S5, M.Arch S3, M.Plan S3	19-09-2022
4	Commencement of classes for BHMCT S3	22-09-2022
5	First and Second CC Meetings for B.Tech S7/S5/S3,BHMCT S5/S3,M.Arch S3, M.Plan S3	27-09-2022, 22-11-2022
6	Third CC Meetings for B.Tech S7/S3, BHMCT S5	17-12-2022
7	Third CC Meetings for B.Tech S5, BHMCT S3,M.Arch S3, M.Plan S3	03-01-2023
8	Course Selection and Mapping Begins for B.Tech S7/S3, BHMCT S5	26-09-2022
9	Course Selection and Mapping Ends for B.Tech S7/S3, BHMCT S5	30-09-2022
10	Course Selection and Mapping Begins for B.Tech S5, BHMCT S3,M.Arch S3, M.Plan S3	12-10-2022
11	Course Selection and Mapping Ends for B.Tech S5, BHMCT S3,M.Arch S3, M.Plan S3	18-10-2022
12	First Series test to be completed for B.Tech S7/S5/S3,BHMCT S5/S3, M.Arch S3, M.Plan S3	11-11-2022
13	Second Series test to be completed for B.Tech S7/S3, BHMCT S5	09-12-2022
14	Second Series test to be completed for B.Tech S5, BHMCT S3,M.Arch S3, M.Plan S3	14-12-2022
15	Exam Registration begins for B.Tech S7/S5/S3,BHMCT S5/S3,M.Arch S3, M.Plan S3	21-11-2022
16	Exam Registration ends for B.Tech S7/S5/S3,BHMCT S5/S3,M.Arch S3, M.Plan S3	30-11-2022
17	Publish IA Marks for B.Tech S3, BHMCT S5	20-12-2022
18	Class Ends Publish Attendance for B.Tech S3, BHMCT S5	21-12-2022
19	Publish IA Marks for B.Tech S7	22-12-2022
20	Class Ends Publish Attendance for B.Tech S7	23-12-2022
21	Publish IA Marks for B.Tech S5,BHMCT S3, M.Arch S3, M.Plan S3	06-01-2023
22	Class Ends Publish Attendance for B.Tech S5,BHMCT S3, M.Arch S3, M.Plan S3	07-01-2023
23	M.Arch S3, M.Plan S3 Jury Examination	09-01-2023
24	Commencement of End Semester Examination for B.Tech S3, BHMCT S5	03-01-2023
25	Commencement of End Semester Examination for B.Tech S7	04-01-2023
26	Commencement of End Semester Examination for B.Tech S5,BHMCT S3, M.Arch S3, M.Plan S3	16-01-2023

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

CET campus, Thiruvananthapuram - 695 016
Ph: 0471 2598122; Fax: 2598522 www. ktu.edu.in Email: university@ktu.edu.in

KTU/AC1/582/2022 03.03.2023

CIRCULAR

Sub: Academic Calendar of Even Semesters for various UG/PG Programmes - Published - Circulated - Reg.

The Academic Calendar of even semesters **(February 2023 to September 2023)** for **B.Tech S2, B.Arch S2, B.Des S2, BHMCT S2, M.Plan S2, M.Arch S2,MCA S2 & INT MCA S2** is published herewith.

Dr. VINU THOMAS
Dean (Academic)

1. Principals of all affiliated Institutions.
2. Controller of Examinations
3. KTU Support.
4. AD-IT (for publishing in the website).

* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - February 2023 to September 2023

B.Tech S2, B.Arch S2, B.Des S2, BHMCT S2, M.Plan S2, M.Arch S2,MCA S2 & INT MCA S2.

Feb-23				Mar-23				Apr-23			
Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class
Wed	1			Wed	1		3	Sat	1		
Thu	2			Thu	2		4	Sun	2		
Fri	3			Fri	3		5	Mon	3		26
Sat	4			Sat	4			Tue	4		27
Sun	5			Sun	5			Wed	5	Course Selection and Course Mapping ends for B.Des S2, MCA S2, INT MCA S2, B.Tech S2, B.Arch S2, M.Plan S2, M.Arch S2 & BHMCT S2	28
Mon	6			Mon	6	Commencement of classes for MCA S2, INT MCA S2	6	Thu	6	Maundy Thursday	
Tue	7			Tue	7		7	Fri	7	Good Friday	
Wed	8			Wed	8		8	Sat	8		
Thu	9			Thu	9	First CC Meeting for B.Des S2,MCA S2, INT MCA S2	9	Sun	9	Easter	
Fri	10			Fri	10		10	Mon	10		29
Sat	11			Sat	11			Tue	11		30
Sun	12			Sun	12			Wed	12		31
Mon	13			Mon	13	Commencement of classes for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2	11	Thu	13		32
Tue	14			Tue	14		12	Fri	14	Dr.B.R. Ambedkar Jayanthi	
Wed	15			Wed	15		13	Sat	15	Vishu	
Thu	16			Thu	16		14	Sun	16		
Fri	17			Fri	17		15	Mon	17		33
Sat	18	Shivaratri		Sat	18			Tue	18		34
Sun	19			Sun	19			Wed	19	First Series test to be completed for MCA S2, INT MCA S2, B.Des S2	35
Mon	20			Mon	20	Commencement of classes for BHMCT S2	16	Thu	20		36
Tue	21			Tue	21	Course Selection and Course Mapping Begins for B.Des S2, MCA S2, INT MCA S2, B.Tech S2, B.Arch S2, M.Plan S2, M.Arch S2 & BHMCT S2	17	Fri	21	Eid-Ul-Fitr	
Wed	22			Wed	22		18	Sat	22		
Thu	23			Thu	23		19	Sun	23		
Fri	24			Fri	24	First CC Meeting for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2, BHMCT S2	20	Mon	24		37
Sat	25			Sat	25			Tue	25	Second CC meeting for B.Des S2,MCA S2, INT MCA S2	38
Sun	26			Sun	26			Wed	26		39
Mon	27	Commencement of classes for B.Des S2	1	Mon	27		21	Thu	27		40
Tue	28		2	Tue	28		22	Fri	28		41
				Wed	29		23	Sat	29		
				Thu	30		24	Sun	30		
				Fri	31		25				

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - February 2023 to September 2023

B.Tech S2, B.Arch S2, B.Des S2, BHMCT S2, M.Plan S2, M.Arch S2,MCA S2 & INT MCA S2.

May-23				Jun-23				Jul-23			
Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class
Mon	1	May Day		Thu	1		42	Sat	1		
Tue	2			Fri	2		43	Sun	2		
Wed	3			Sat	3			Mon	3		63
Thu	4			Sun	4			Tue	4		64
Fri	5			Mon	5		44	Wed	5		65
Sat	6			Tue	6		45	Thu	6		66
Sun	7			Wed	7		46	Fri	7		67
Mon	8			Thu	8		47	Sat	8		
Tue	9			Fri	9	First Series test to be completed for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2, BHMCT S2	48	Sun	9		
Wed	10			Sat	10			Mon	10		68
Thu	11			Sun	11			Tue	11		69
Fri	12			Mon	12		49	Wed	12	Exam Registration ends for B.Des S2, MCA S2, INT MCA S2, B.Tech S2, B.Arch S2, M.Plan S2, M.Arch S2 & BHMCT S2	70
Sat	13			Tue	13		50	Thu	13		71
Sun	14			Wed	14		51	Fri	14	Second Series test to be completed for MCA S2, INT MCA S2, B.Des S2	72
Mon	15			Thu	15		52	Sat	15		
Tue	16			Fri	16	Second CC Meeting for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2, BHMCT S2	53	Sun	16		
Wed	17			Sat	17			Mon	17	Karkadaka Vavu	
Thu	18			Sun	18			Tue	18	Third CC meeting for B.Des S2,MCA S2, INT MCA S	73
Fri	19			Mon	19		54	Wed	19	Publish IA Marks for B.Des S2	74
Sat	20			Tue	20		55	Thu	20	Class Ends Publish Attendance for B.Des S2	75
Sun	21			Wed	21		56	Fri	21		76
Mon	22			Thu	22		57	Sat	22		
Tue	23			Fri	23		58	Sun	23		
Wed	24			Sat	24			Mon	24		77
Thu	25			Sun	25			Tue	25		78
Fri	26			Mon	26		59	Wed	26	Second Series test to be completed for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2, BHMCT S2 Publish IA Marks for MCA S2, INT MCA S2	79
Sat	27			Tue	27		60	Thu	27	Class Ends Publish Attendance for MCA S2, INT MCA S2	80
Sun	28			Wed	28	Bakrid		Fri	28	Muharram	
Mon	29			Thu	29		61	Sat	29		
Tue	30			Fri	30	Exam Registration begins for B.Des S2, MCA S2, INT MCA S2, B.Tech S2, B.Arch S2, M.Plan S2, M.Arch S2 & BHMCT S2	62	Sun	30		
Wed	31							Mon	31	Commencement of End Semester Examination for B.Des S2	

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - February 2023 to September 2023

B.Tech S2, B.Arch S2, B.Des S2, BHMCT S2, M.Plan S2, M.Arch S2,MCA S2 & INT MCA S2.

		Aug-23				Sep-23				Oct-23			
Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class
Tue	1	Third CC meeting for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2, BHMCT S2	81	Fri	1			Sun	1		
Wed	2		82	Sat	2			Mon	2	Gandhi Jayanthi	
Thu	3	Publish IA Marks for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2	83	Sun	3			Tue	3		
Fri	4	Class Ends Publish Attendance for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2	84	Mon	4		99	Wed	4		
Sat	5			Tue	5		100	Thu	5		
Sun	6			Wed	6	Sreekrishna Jayanthi		Fri	6		
Mon	7	Commencement of End Semester Examination for MCA S2, INT MCA S2	85	Thu	7		101	Sat	7		
Tue	8		86	Fri	8		102	Sun	8		
Wed	9		87	Sat	9			Mon	9		
Thu	10	Publish IA Marks for BHMCT S2	88	Sun	10			Tue	10		
Fri	11	Class Ends Publish Attendance for BHMCT S2	89	Mon	11		103	Wed	11		
Sat	12			Tue	12		104	Thu	12		
Sun	13			Wed	13		105	Fri	13		
Mon	14	Commencement of End Semester Examination for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2	90	Thu	14		106	Sat	14		
Tue	15	Independence Day		Fri	15		107	Sun	15		
Wed	16		91	Sat	16			Mon	16		
Thu	17		92	Sun	17			Tue	17		
Fri	18		93	Mon	18		108	Wed	18		
Sat	19			Tue	19		109	Thu	19		
Sun	20			Wed	20		110	Fri	20		
Mon	21	Commencement of End Semester Examination for BHMCT S2	94	Thu	21		111	Sat	21		
Tue	22		95	Fri	22	Sree Narayana Guru Samadhi		Sun	22		
Wed	23		96	Sat	23			Mon	23	Mahanavami	
Thu	24		97	Sun	24			Tue	24	Vijayadasami	
Fri	25		98	Mon	25			Wed	25		
Sat	26			Tue	26			Thu	26		
Sun	27			Wed	27	Milad-I-Sherif		Fri	27		
Mon	28	First Onam		Thu	28			Sat	28		
Tue	29	Thiruvonam		Fri	29			Sun	29		
Wed	30	Third Onam		Sat	30			Mon	30		
Thu	31	Fourth Onam						Tue	31		

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - February 2023 to September 2023

B.Tech S2, B.Arch S2, B.Des S2, BHMCT S2, M.Plan S2, M.Arch S2,MCA S2 & INT MCA S2.

Even Semester(2022-2023)

Sl.No	Important Events	Important Dates
1	Commencement of classes for B.Des S2	27-02-2023
2	Commencement of classes for MCA S2, INT MCA S2	06-03-2023
3	First CC Meeting for B.Des S2,MCA S2, INT MCA S2	09-03-2023
4	Commencement of classes for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2	13-03-2023
5	Commencement of classes for BHMCT S2	20-03-2023
6	Course Selection and Course Mapping Begins for B.Des S2, MCA S2, INT MCA S2, B.Tech S2, B.Arch S2, M.Plan S2, M.Arch S2 & BHMCT S2	21-03-2023
7	First CC Meeting for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2,BHMCT S2	24-03-2023
8	Course Selection and Course Mapping ends for B.Des S2, MCA S2, INT MCA S2, B.Tech S2, B.Arch S2, M.Plan S2, M.Arch S2 & BHMCT S2	05-04-2023
9	First Series test to be completed for MCA S2, INT MCA S2, B.Des S2	19-04-2023
10	Second CC meeting for B.Des S2,MCA S2, INT MCA S2	25-04-2023
11	Summer Vacation for B.Des S2, MCA S2, INT MCA S2, B.Tech S2, B.Arch S2, M.Plan S2, M.Arch S2 & BHMCT S2	01-05-2023 to 30-05-2023*
12	First Series test to be completed for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2, BHMCT S2	09-06-2023
13	Second CC Meeting for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2, BHMCT S2	16-06-2023
14	Exam Registration begins for B.Des S2, MCA S2, INT MCA S2, B.Tech S2, B.Arch S2, M.Plan S2, M.Arch S2 & BHMCT S2	30-06-2023
15	Exam Registration ends for B.Des S2, MCA S2, INT MCA S2, B.Tech S2, B.Arch S2, M.Plan S2, M.Arch S2 & BHMCT S2	12-07-2023
16	Second Series test to be completed for MCA S2, INT MCA S2, B.Des S2	14-07-2023
17	Third CC meeting for B.Des S2,MCA S2, INT MCA S	18-07-2023
18	Publish IA Marks for B.Des S2	19-07-2023
19	Class Ends Publish Attendance for B.Des S2	20-07-2023
20	Second Series test to be completed for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2, BHMCT S2	26-07-2023
21	Publish IA Marks for MCA S2, INT MCA S2	26-07-2023
22	Class Ends Publish Attendance for MCA S2, INT MCA S2	27-07-2023
23	Commencement of End Semester Examination for B.Des S2	31-07-2023
24	Third CC meeting for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2, BHMCT S2	01-08-2023
25	Publish IA Marks for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2	03-08-2023
26	Class Ends Publish Attendance for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2	04-08-2023
27	Commencement of End Semester Examination for MCA S2, INT MCA S2	07-08-2023
	Publish IA Marks for BHMCT S2	10-08-2023
	Class Ends Publish Attendance for BHMCT S2	11-08-2023

30	Commencement of End Semester Examination for B.Tech S2, B.Arch S2,M.Plan S2, M.Arch S2	14-08-2023
31	Commencement of End Semester Examination for BHMCT S2	21-08-2023

Important Note*

1. The month of May will be vacation for the faculty and students.

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

CET campus, Thiruvananthapuram - 695 016
Ph: 0471 2598122; Fax: 2598522 www. ktu.edu.in Email: university@ktu.edu.in

KTU/AC1/582/2022 02.02.2023

CIRCULAR

Sub: Academic Calendar of Even Semesters for various UG/PG Programmes - Published - Circulated - Reg.

The Academic Calendar of even semesters **(January 2023 to June 2023)** for **MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8** is published herewith.

Dr. VINU THOMAS
Dean (Academic)

1. Principals of all affiliated Institutions.
2. Controller of Examinations
3. KTU Support.
4. AD-IT (for publishing in the website).

* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - January 2023 to June 2023

MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8

Jan-23				Feb-23				Mar-23			
Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class
Sun	1			Wed	1	Commencement of classes for MBA S4	9	Wed	1		29
Mon	2	Mannam Jayanthi		Thu	2		10	Thu	2		30
Tue	3			Fri	3	Course Selection and Mapping Begins for MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8	11	Fri	3		31
Wed	4			Sat	4			Sat	4		
Thu	5			Sun	5			Sun	5		
Fri	6			Mon	6	Commencement of classes for B.Tech S4/S6,BHMCT S6/S4	12	Mon	6		32
Sat	7			Tue	7		13	Tue	7		33
Sun	8			Wed	8		14	Wed	8		34
Mon	9			Thu	9		15	Thu	9	First Series test to be completed for INT MCA S4/S6,B.Arch S8 Project Evaluation-I MBA S4	35
Tue	10			Fri	10	First CC Meeting for MBA S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6	16	Fri	10		36
Wed	11			Sat	11			Sat	11		
Thu	12			Sun	12			Sun	12		
Fri	13			Mon	13		17	Mon	13		37
Sat	14			Tue	14		18	Tue	14		38
Sun	15			Wed	15	Course Selection and Mapping Ends for MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8	19	Wed	15		39
Mon	16			Thu	16		20	Thu	16	Second CC meeting for MCA S4, INT MCA S4/S6	40
Tue	17			Fri	17		21	Fri	17		41
Wed	18			Sat	18	Shivaratri		Sat	18		
Thu	19	Commencement of classes for B.Des S8, MCA S4, INT MCA S4/S6	1	Sun	19			Sun	19		
Fri	20		2	Mon	20		22	Mon	20		42
Sat	21			Tue	21		23	Tue	21		43
Sun	22			Wed	22		24	Wed	22	First Series test to be completed for B.Arch S4/S6, MBA S4, B.Tech S4/S6/S8, BHMCT S6/S4	44
Mon	23	Commencement of classes for B.Arch S8	3	Thu	23		25	Thu	23		45
Tue	24		4	Fri	24		26	Fri	24		46
Wed	25		5	Sat	25			Sat	25		
Thu	26	Republic Day		Sun	26			Sun	26		
Fri	27		6	Mon	27		27	Mon	27		47
				Tue	28	First interim evaluation for MCA S4 Jury Evaluation-I for M.Plan S4, M.Arch S4	28	Tue	28		48

Sun	**29**		
Mon	30	**Commencement of classes for B.Tech S8,B.Arch S4/S6, M.Arch S4, M.Plan S4**	7
Tue	31		8
Wed	29	**Second CC meeting for MBA S4, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6**	49
Thu	30		50
Fri	31	**Second interim evaluation for MCA S4 Jury Evaluation -II for M.Plan S4, M.Arch S4**	51

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - January 2023 to June 2023

MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8

Apr-23				May-23				Jun-23			
Days	Date	Description	Class	Days	Date	Description	Class	Days	Date	Description	Class
Sat	1			Mon	1	May Day		Thu	1	Publish IA Marks for B.Tech S4/S6,BHMCT S4/S6	90
Sun	2			Tue	2		68	Fri	2	Class Ends Publish Attendance for B.Tech S4/S6,BHMCT S4/S6	91
Mon	3		52	Wed	3		69	Sat	3		
Tue	4		53	Thu	4	Second Series test to be completed for INT MCA S4/S6, B.Arch S8	70	Sun	4		
Wed	5		54	Fri	5		71	Mon	5	Commencement of End Semester Examination for B.Tech S8, B.Arch S4/S6, MBA S4	92
Thu	6	Maundy Thursday		Sat	6			Tue	6		93
Fri	7	Good Friday		Sun	7			Wed	7	External Jury Evaluation and Viva Voice for M.Arch S4, M.Plan S4	94
Sat	8			Mon	8		72	Thu	8		95
Sun	9	Easter		Tue	9		73	Fri	9		96
Mon	10		55	Wed	10		74	Sat	10		
Tue	11		56	Thu	11	Publish IA Marks for INT MCA S4/S6	75	Sun	11		
Wed	12		57	Fri	12	Class Ends Publish Attendance for INT MCA S4/S6 Third CC meeting for MBA S4, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6	76	Mon	12	Commencement of End Semester Examination for B.Tech S4/S6,BHMCT S6/S4	97
Thu	13		58	Sat	13			Tue	13		98
Fri	14	Dr.B.R. Ambedkar Jayanthi		Sun	14			Wed	14		99
Sat	15	Vishu		Mon	15	Third interim evaluation for MCA S4	77	Thu	15		100
Sun	16			Tue	16		78	Fri	16		101
Mon	17	Exam Registration begins for MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8	59	Wed	17	Publish IA Marks for MCA S4, B.Des S8,B.Arch S8	79	Sat	17		
Tue	18		60	Thu	18	Class Ends Publish Attendance for MCA S4, B.Des S8,B.Arch S8	80	Sun	18		
Wed	19		61	Fri	19	Second Series test to be completed for B.Tech S4/S6/S8, B.Arch S4/S6,MBA S4,BHMCT S6/S4 Project Evaluation-II MBA S4 B.Arch S8 Jury begins	81	Mon	19		102
Thu	20		62	Sat	20			Tue	20		103
Fri	21	Eid-Ul-Fitr		Sun	21			Wed	21		104
Sat	22			Mon	22	Commencement of End Semester Examination for INT MCA S4/S6 External Project evaluation for B.Des S8 begins	82	Thu	22		105
Sun	23			Tue	23		83	Fri	23		106
Mon	24		63	Wed	24		84	Sat	24		
Tue	25		64	Thu	25	Publish IA Marks for B.Tech S8,B.Arch S4/S6,MBA S4	85	Sun	25		

Wed	26		65	Fri	26	**Class Ends Publish Attendance for B.Tech S8,B.Arch S4/S6,MBA S4** **Jury Evaluation -IV for M.Plan S4, M.Arch S4** **External Project evaluation and Viva voce for MCA S4 begins**	86	Mon	26		107
Thu	27	**Exam Registration ends for MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8**	66	Sat	27			Tue	27		108
Fri	28	**Third CC meeting for MCA S4, INT MCA S4/S6** **Jury Evaluation-III for M.Plan S4, M.Arch S4**	67	**Sun**	**28**			**Wed**	**28**	**Bakrid**	
Sat	29			Mon	29	**B.Arch S4/S6 Jury begins** **Commencement of End Semester Examination for B.Arch S8**	87	Thu	29		109
Sun	**30**			Tue	30	**Publish IA Marks for M.Arch S4, M.Plan S4**	88	Fri	30		110
				Wed	31	**Class Ends Publish Attendance for M.Arch S4, M.Plan S4**	89				

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Academic Calendar - January 2023 to June 2023

MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8

Even Semester(2022-2023)

Sl.No	Important Events	Important Dates
1	Commencement of classes for B.Des S8, MCA S4, INT MCA S4/S6	19-01-2023
2	Commencement of classes for B.Arch S8	23-01-2023
3	Commencement of classes for B.Tech S8,B.Arch S4/S6, M.Arch S4, M.Plan S4	30-01-2023
4	Commencement of classes for MBA S4	01-02-2023
5	Commencement of classes for B.Tech S4/S6,BHMCT S6/S4	06-02-2023
6	Course Selection and Mapping Begins for MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8	03-02-2023
7	Course Selection and Mapping Ends for MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8	15-02-2023
8	First CC Meeting for MBA S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6	10-02-2023
9	Second CC meeting for MCA S4, INT MCA S4/S6	16-03-2023
10	Second CC meeting for MBA S4, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6	29-03-2023
11	Third CC meeting for MCA S4, INT MCA S4/S6,	28-04-2023
12	Third CC meeting for MBA S4, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6	12-05-2023
13	First Series test to be completed for INT MCA S4/S6,B.Arch S8	09-03-2023
14	First Series test to be completed for B.Arch S4/S6, MBA S4, B.Tech S4/S6/S8, BHMCT S6/S4	22-03-2023
15	Exam Registration begins for MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8	17-04-2023
16	Exam Registration ends for MBA S4, M.Arch S4, M.Plan S4, MCA S4, INT MCA S4/S6, B.Arch S4/S6/S8, B.Tech S4/S6/S8, BHMCT S4/S6, B.Des S8	27-04-2023
17	Second Series test to be completed for INT MCA S4/S6, B.Arch S8	04-05-2023
18	Second Series test to be completed for B.Tech S4/S6/S8, B.Arch S4/S6,MBA S4,BHMCT S6/S4	19-05-2023
19	First interim evaluation for MCA S4	28-02-2023
20	Second interim evaluation for MCA S4	31-03-2023
21	Third interim evaluation for MCA S4	15-05-2023
22	Jury Evaluation-I for M.Plan S4, M.Arch S4	28-02-2023
23	Jury Evaluation -II for M.Plan S4, M.Arch S4	31-03-2023
24	Jury Evaluation -III for M.Plan S4, M.Arch S4	28-04-2023
25	Jury Evaluation -IV for M.Plan S4, M.Arch S4	26-05-2023
26	Project Evaluation-I MBA S4	09-03-2023
27	Project Evaluation-II MBA S4	19-05-2023
28	Publish IA Marks for INT MCA S4/S6	11-05-2023
29	Class Ends Publish Attendance for INT MCA S4/S6	12-05-2023
30	Publish IA Marks for MCA S4, B.Des S8,B.Arch S8	17-05-2023
31	Class Ends Publish Attendance for MCA S4, B.Des S8,B.Arch S8	18-05-2023
	B.Arch S8 Jury	19-05-2023, 20-05-2023
	Publish IA Marks for B.Tech S8,B.Arch S4/S6,MBA S4	25-05-2023

34	Class Ends Publish Attendance for B.Tech S8,B.Arch S4/S6,MBA S4	26-05-2023
35	B.Arch S4/S6 Jury	29-05-2023,30-05-2023
36	Publish IA Marks for M.Arch S4, M.Plan S4	30-05-2023
37	Class Ends Publish Attendance for M.Arch S4, M.Plan S4	31-05-2023
38	Publish IA Marks for B.Tech S4/S6,BHMCT S4/S6	01-06-2023
39	Class Ends Publish Attendance for B.Tech S4/S6,BHMCT S4/S6	02-06-2023
40	Commencement of End Semester Examination for INT MCA S4/S6	22-05-2023
41	External Project Evaluation for B.Des S8	22-05-2023 to 25-05-2023
42	External Project Evaluation and Viva voce for MCA S4 begins	26-05-2023
43	Commencement of End Semester Examination for B.Arch S8	29-05-2023
44	Commencement of End Semester Examination for B.Tech S8,B.Arch S4/S6,MBA S4	05-06-2023
45	External Jury Evaluation and Viva Voice for M.Arch S4, M.Plan S4	07-06-2023
46	Commencement of End Semester Examination for B.Tech S4/S6,BHMCT S4/S6	12-06-2023

Viswajyothi College of Engineering and Technology
Vazhakulam, Muvattupuzha.

Ref: VJCET/HODM/AGDA/2023/633 Date: 03.04.2023

Sub: Agenda of 633rd meeting of Dean and Heads of the Departments of VJCET

The 633rd meeting of Dean and Heads of the Departments of VJCET is scheduled to be held on, **Tuesday, 04.04.2023,** at 10.30 AM in the VJCET conference room. Agenda points are compiled and listed below. Dean and all HODs are requested to attend the meeting.

Item	Description
1.	Confirmation of minutes 631st and 632nd meeting
2.	IE-1 progress report and PTA schedule
3.	IE-2 for S8 and IE-1 for S2 classes
4.	KTU exam schedule
5.	Review and feedback on BODHI and Drishya
6.	Faculty and infrastructure requirement for the next academic year
7.	Regular department meetings and updated minutes
8.	Communication of DHoD meetings to staff members
9.	Programming in Python
10.	Status of Fee collection
11.	MBA academics and action plan for placement and admission
12.	Briefing on HMCT activities
13.	Any other points with the permission of chair

Agenda compiled by: Mr. Somy P Mathew

To

1. Manager, VJCET
2. Director, VJCET
3. Principal, VJCET
4. Vice Principal, VJCET
5. Deans, VJCET
6. HODs, VJCET
7. AO, VJCET

Viswajyothi College of Engineering and Technology

Vazhakulam, Muvattupuzha.

Ref: VJCET/ HODM/MOM/2023/633 Dt: 19.04.2023

Sub: Minutes of the 633rd meeting of Deans and Heads of the Departments of VJCET

The 633rd meeting of Deans and Heads of the Departments of VJCET was held on Tuesday, 04.04.2023, at 10 AM in the VJCET Conference Hall. The following members attended the meeting. The meeting started with a silent prayer.

Sl. No	Officials attended	Designation	Status
1.	Rev. Fr. Paul Nedumpurath	Director	Invitee
2.	Dr. K. K. Rajan	Principal	Convener
3.	Mr. Somy P. Mathew	Vice-Principal	Member
4.	Dr. Cyriac Joseph	Dean & HOD, Dept. of MBA	Member
5.	Dr. Shunmugesh K	HOD, Dept. of ME	Member
6.	Dr. Sony Kurian	HOD, Dept. of EEE	Member
7.	Dr. Naveen Jacob	HOD, Dept. of ECE	Member
8.	Dr. Melvin C. Jose	HOD, Dept. of AD	Member
9.	Mr. Amel Austine	HOD, Dept. of CSE	Member
10.	Mr. Biju George	HOD, Dept. of S&H	Member
11.	Mr. Sujith K. S.	HOD, Dept. of HMCT	Member
12.	Dr. Anoop C. K.	NAAC/NBA coordinator	Invitee
13.	Ms. Jesline Joseph	Asst. HOD, Dept. of IT	Invitee
14.	Ms. Vinija Kurian	Internal Examination Coordinator	Invitee
15.	Mr. Joe Mathew Jacob	Students Council Advisor	Invitee

Principal, Dr. K. K. Rajan chaired the meeting. He welcomed all the members to the meeting. Following were the main points discussed and decisions are taken.

Item	Description	Action
1.	The minutes of the 632nd meeting would be confirmed in the next meeting.	--
	The Director and Principal congratulated the newly appointed HoD of the AD Dept. Dr. Melvin C. Jose	--
2.	The Principal asked the HoDs to submit the consolidated mark list of the first internal examination on 10th April before 4:00 p.m. The PTA meeting should be organized after April 10th. During the S8 PTA meeting for the special supplementary examination for S6 & S7, and the S8 regular examination dates should be mentioned. All the PT meetings should be completed on or before 26th April.	All

3.	The second internal examination for the S8 classes and the first internal examination for the S2 classes would be conducted in the month of May.	All
4.	The Principal informed that the KTU had published the examination calendar for the even semester. The HODs should ensure that all the portions would be covered before the last working day mentioned in the KTU calendar.	All
5.	The Principal congratulated and appreciated student council advisors Ms. Jesline Joseph, Mr. Joe Mathew Jacob and all the other coordinators for successfully conducting the technical festival Bodhi and the arts festival Drishya.	All
6.	The Principal asked the HoDs to submit the faculty and infrastructure requirement for the next academic year at the earliest.	HoDs
7&8.	The Principal asked the HoDs to circulate the minutes of all the DHOD meeting among all the staff members. All the HoDs should conduct at least one department meeting during every month. The minutes of the department meeting should be entered in a register.	HoDs
9.	The Vice Principal informed the meeting that a workshop on "Python, introduction library files, machine learning, basics logistic regression, decision" would be conducted by Cloud Innovations in association with the R&D on 11th April 2023 Tuesday from 9:00 a.m. to 12:00 p.m. Two students from each 1st year and 2nd year class of each department can attend the workshop. HoDs have to discuss with the respective tutors and the name list should be given to the R&D coordinator Dr. Anita Brigit Mathew.	R&D coordinator
10.	The Vice Principal informed the meeting that Rs. 622500/- more has to be collected from the S4 classes, Rs.796900/- more has to be collected from S6 classes and Rs.1415950/- more has to be collected from the S8 classes.	HoDs & tutors
11.	Dr. Cyriac Joseph Dean & HoD Dept. of MBA informed the meeting that the S2 & S4 classes are progressing. The second internal examination for the S4 classes would be conducted on April 10th to April 12th. Remedial classes for the S4 students would be conducted from April 17th onwards. The Industrial visit for the S4 students to Goa has been scheduled from April 25th onwards. As on date the number of admissions for 2023 batch is 15 and the placement status is 10. Regarding fees 5 more students has to pay from S2 class and 3 from S4 (partially paid the fees)	MBA Dept.
12.	The HMCT HoD Mr. Sujith K. S. informed that the S2 classes are progressing well. The department would be organizing a one-day workshop on fruits and vegetable carving for students on April 26th. Limited number of interested students from other branches can also participate in the workshop.	HMCT Dept.

Minutes prepared by: Mr. Somy P Mathew

Minutes approved by: Dr. K. K. Rajan

To

1. Manager, VJCET
2. Director, VJCET
3. Principal, VJCET
4. Vice Principal, VJCET
5. Deans, VJCET

Viswajyothi College of Engineering and Technology

Vazhakulam, Muvattupuzha.

Ref: VJCET/HODM/AGDA/2022/618 Date: 06.12.2022

Sub: Agenda of 618th meeting of Dean and Heads of the Departments of VJCET

The 618th meeting of Dean and Heads of the Departments of VJCET is scheduled to be held on, **Wednesday, 07.12.2022,** at 11.00 AM in VJCET conference room. Agenda points are compiled and listed below. Dean and all HODs are requested to attend the meeting.

Item	Description
1.	Confirmation of minutes 617 th meeting
2.	Readiness for IE-2 and schedule for progress report
3.	General instructions to first year students regarding Internal exam -1
4.	Status of Fee collection
5.	Status of NAAC DVV clarification submission
6.	MBA academics and action plan for placement and admission
7.	Data on S5 minor course offered by each department. Initial/ Current strength
8.	Briefing on HMCT activities
9.	Feedback of faculty and technical staff (CSE & EEE, faculty MBA)
10.	Manorama digital change makers contest
11.	Formation of English club under S & H dept.
12.	Disposal old records in departments – action plan
13.	Readiness towards even semester- faculty requirement, subject allocation, elective selection, time table etc.,
14.	Any other points with the permission of chair

Agenda compiled by: Mr. Somy P Mathew

To

1. Manager, VJCET
2. Director, VJCET
3. Principal, VJCET
4. Vice Principal, VJCET
5. Deans, VJCET
6. HODs, VJCET
7. AO, VJCET

Viswajyothi College of Engineering and Technology

Vazhakulam, Muvattupuzha.

Ref: VJCET/ HODM/MOM/2022/618th Dt: 06. 12. 2022

Sub: Minutes of the 618th meeting of Dean and Heads of the Departments of VJCET

The 618th meeting of Dean and Heads of the Departments of VJCET was held on Wednesday, 07.12.2022, at 11 AM in the Conference Hall. The following members attended the meeting. The meeting started with a silent prayer.

Sl. No	Officials attended	Designation	Status
1.	Rev. Fr. Paul Nedumpurath	Director	Invitee
2.	Dr. K. K. Rajan	Principal	Convener
3.	Mr. Somy P. Mathew	Vice-Principal	Member
4.	Dr. Shine George	HOD, Dept. of CE	Member
5.	Dr. Shunmugesh K	HOD, Dept. of ME	Member
6.	Dr. Sony Kurian	HOD, Dept. of EEE	Member
7.	Dr. Naveen Jacob	HOD, Dept. of ECE	Member
8.	Ms. Anju Susan George	HOD, Dept. of IT	Member
9.	Mr. Amel Austine	HOD, Dept. of CSE	Member
10.	Mr. Biju George	HOD, Dept. of S&H	Member
11.	Mr. Sujith K S	HOD, Dept. of HMCT	Member
12.	Dr. Anoop C K	NAAC/NBA coordinator	Invitee
13.	Mr. Mavin C	Placement Officer	Invitee
14.	Mr. Sebin Joseph	Stt. HOD, Dept. of MBA	Invitee

Principal, Dr. K. K. Rajan chaired the meeting. He welcomed all the members to the meeting. Following were the main points discussed and decisions taken.

Sl No.	Item	Action
1.	The meeting confirmed the minutes of 617th meeting.	--
2.	The HoDs informed that the portions for second series examination would be completed before December 8th. The second series examination for S3, S5 & S7 and the first series examination for S1 would commence on December 9th. The consolidated mark-list should be submitted on or before December 20th.	
3.	The Principal informed that general instruction for the first-year students had been circulated to HoDs. The Principal asked the HoDs to visit the corresponding first year class and to communicate the instructions to the students. The Principal also asked the HoDs to inform about the instruction to the parents.	HoDs & tutors
4.	The Vice-Principal informed that Rs. 1.86 lac more has to be collected from S3 classes. From S5 Rs. 4.04 lac and from S7 Rs. 5.87 lac more has to be collected. The Vice-Principal said that the defaulters list had been circulated to the HoDs and to the tutors. The Vice-Principal requested the HoDs to communicate with the students, who are in the list, to pay the fees at the earliest.	HoDs & tutors
5.	The NAAC coordinator Dr. Anoop C K informed that the draft data for the NAAC DVV clarification had been framed and it would be presented before	NAAC committee

VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY,VAZHAKULAM

VISION: "Moulding professionals par excellence with integrity, fairness, and human values"

SEMESTER PLAN FOR S7, S5, S3 & S1 KTU B.Tech Classes (September 12th 2022 - February 8th 2023)

No. of working days for the odd semester	
Month	Days
September	14
October	20
November	23
December	18
January	21
February	6
Total	102

Semester	Working Days
S7	74
S5	75
S3	73
S1	74

IMPORTANT DATES	
September 12th	Commencement of classes for S3
September 13th	Commencement of classes for S7
September 19th	Commencement of classes for S5
September 27th	First Class Committee meeting (S7, S5 and S3)
October 25th	Commencement of classes for S1
Oct 25th - Oct 29th	Student Induction Training Programme (SITP) for S1
October 28th	Assignment 1 Completion (S7, S5 and S3)
November 4th	Series Test 1 commences (S7, S5 and S3), First Course Committee Meeting (S1)
November 18th	Consolidated Marklist of Series Test 1 (S7, S5 and S3)
November 22nd	Second Class Committee meeting S7, S5 and S3
November 25th and 26th	Tech Fest
December 2nd	Assignment 2 Completion (S7, S5 and S3) and Assignment 1 (S1)
December 9th	Series Test 2 commences (S7, S5 and S3) and Series Test 1 (S1)
December 17th	Third Class Committee meeting S7 and S3
December 19th	Consolidated Marklist of Series Test 2 (S7 and S3)
December 20th	Publish Internal Marks (S3), Second Course Committee Meeting (S1)
December 21st	Class Ends and Publish Attendance (S3)
December 22nd	Publish Internal Marks (S7)
December 23rd	Class Ends and Publish Attendance (S7), Consolidated Marklist of Series 2 (S5) & Series 1 (S1)
Dec 24th - Jan 2nd	Christmas Holidays
January 3rd	Third Class Committee meeting S5
January 6th	Publish Internal Marks (S5) and Assignment 2 completion (S1)
January 7th	Class Ends and Publish Attendance (S5)
January 20th	Series Test 2 commences (S1)
February 1st	Third Course Committee Meeting (S1)
February 3rd	Consolidated Marklist of Series Test 2 (S1)
February 7th	Publish Internal Marks (S1)
February 8th	Class Ends and Publish Attendance (S1)

September							October					November							December									January						February			
12	13	14-16	19	20, 22-23,26	27	28-30	1,6-7,10-15,17-21	25	26-27	28	29, 31	1-3	4,7-9	10-11, 14-17	18,21	22	23-24	25-26	28-30	1-2	5-8	9,12-14	15-16	17	19	20	21	22	23	3	4-5	6	7	9-13,16-19	20,23-25	27, 30-31	1	2-3, 6	7	8
Commencement of regular classes (S3)	Commencement of regular classes (S7)	Regular class	Commencement of regular classes (S5)	Regular class	Regular class First Class Committee Meeting S7, S5, S3	Regular class	Regular Classes	Commencement of classes (S1)	Regular class , SITP (S1)	Regular class, SITP (S1) Assignment 1 S7, S5, S3	Regular class, SITP (S1) on 29th	Regular class	Series Test 1 S7, S5, S3, First Course Committee Meeting (S1)	Regular class	Regular class Consolidated Marklist Series 1 (S7, S5, S3) on 18th	Regular class Second Class Committee Meeting S7, S5, S3	Regular Class	Tech Fest	Regular class	Regular class Assignment 2 (S7, S5, S3) & Assignment 1 (S1) on 2nd	Regular Class	Series Test 2 (S7, S5, S3) & Series Test 1 (S1)	Regular class	Regular Class Third Class Committee Meeting (S7, S3)	Regular class Consolidated Marklist Series 2 (S7, S3)	Regular Class Publish Internal Marks for S3, Second Course Committee Meeting (S1)	Regular Class Publish Attendance & Class ends (S3)	Regular Class Publish Internal Marks for S7	Regular Class Publish Attendance & Class ends (S7), Consolidated Marklist Series 2 (S5) & Series 1 (S1)	Regular Class Third Class Committee Meeting (S5)	Regular class	Regular Class Publish Internal Marks (S5) & Assignment 2 (S1)	Regular Class Publish Attendance & Class ends (S5)	Regular class	Series Test 2 (S1)	Regular class	Regular Class Third Course Committee Meeting (S1)	Regular class Consolidated Marklist Series 2 (S1) on 3rd	Regular Class Publish Internal Marks (S1)	Regular Class Publish Attendance & Class ends (S1)
1	1	3	1	4	1	3	14	1	2	1	2	3	4	6	2	1	2	2	3	2	4	4	2	1	1	1	1	1	1	2	1	1	9	4	3	1	3	1	1
1	2	5	6	10	11	14	28	29	31	32	34	37	41	47	49	50	52	54	57	59	63	67	69	70	71	72	73	74	75	76	78	79	80	89	93	96	97	100	101	102

Principal

Viswajyothi College of Engineering & Technology, Vazhakulam

VISION: "Moulding professionals par excellence with integrity, fairness, and human values"

SEMESTER PLAN FOR S2, S4, S6, S8 KTU B.Tech Classes (January 30th 2023 - August 2nd 2023)

No. of working days for the even semester	
Month	Days
January	2
February	20
March	24
April	17
May	23
June	21
July	19
August	4

Semester	Actual Working
S8	73
S6	66.5
S4	66.5
S2	65

No. of working Days Lost	
Bodhi & Drona	2
Drishya	2
Series Examination	6
College Day	0.5
Total	10.5

Working Saturdays	
Month	Dates
January	Nil
February	Nil
March	4th
April	22nd
May	Nil
June	17th
July	15th & 29th
August	Nil

IMPORTANT DATES	
January 30th	Commencement of regular classes for S8
February 3rd	Course selection & course mapping begins
February 6th	Commencement of regular classes for S4 & S6
February 10th	First CC meeting for S4, S6, S8
February 15th	Course selection & course mapping ends for S4, S6, S8
March 10th	First Assignment to be completed for S4, S6 & S8
March 13th	Commencement of regular classes for S2
March 17th, 20th, 21st	First series examination for S4, S6 & S8
March 21st	Course selection & course mapping begins for S2
March 24th	First CC meeting for S2
March 28th - 31st	Bodhi, Drishya, Drona, March 29th Second CC for S4 & S6
April 5th	Course selection & course mapping ends for S2
April 17th	Exam registration begins for S8
April 27th	Exam registration ends for S8
May 6th	Second assignment to be completed for S8
May 12, 15-16	Second Series examination for S8
May 20th	College Day
May 25th	Publish IA marks for S8
May 26th	Class ends & publish attendance for S8
June 1st	Exam Registration begins for S4 & S6
June 8th	Exam registration ends for S4 & S6
June 9th	Third CC meeting for S4 & S6
June 9th,12th,13th & 15th	Second series examination for S2, S4 & S6
June 16th	Second CC meeting for S2
June 26th	Publish IA marks for S4 & S6
June 27th	Class ends & publish attendance for S4 & S6
June 30th	Exam Registration begins for S2
July 12th	Exam registration ends for S2
July 21st, 24th, 25th & 26th	Second series examination for S2
August 1st	Third CC meeting for S2
August 3rd	Publish IA marks for S2
August 4th	Class ends & publish attendance for S2

January		February					March						April			May						June							July			August	
30	31	1-3	6	7-10	13-17	20-24, 27-28	1-4	6-10	13-16	17, 20,21	22-24, 27	28-31	3-5, 10-13	17-20, 22	24-28	2-6	8-11	12,15-16	17-20	22-26	29-31	1-2	5-8	9,12-13	14	15	16-17, 19-23, 26-27	29-30	3-7, 10-15,18-20	21, 24-26	27, 29-30	1-2	3-4
Commencement of regular classes (S8)	Regular Class for S8	Regular Class for S8 Feb 3rd Course selection & course mapping begins	Commencement of regular classes (S4 & S6)	Regular Class February 10th Ist CC Meeting for S4, S6, S8	Regular Class Feb 15th Course selection & Course mapping ends	Regular Classes	Regular Classes	Regular Classes March 10th Ist Assignment to be completed for S4, S6, S8	Regular Classes S4 & S6 March 13th Commencement of regular class for S2	First Series Examination for S4, S6, S8. March 21st Course selection & course mapping begins for S2	Regular Classes March 24th First CC meeting for S2	Tech Fest Bodhi, Arts Fest Drishya, Sports Fest Drona March 29th Second class committee meeting	Reular Classes April 5th Course selection & Course mapping ends for S2	Regular Classes April 17th Exam registration begins for S8	Regular Classes April 27th Exam registration ends for S8	Regular Classes for S8 May 6th IInd Assignment to be completed, Vacation for S4 & S6 started	Regular classes for S8	Second Series examination for S8 May 12th third class committee meeting	Regular Classes	Regular Classes May 25th Publish IA marks for S8 May 26th Class ends Publish Attendance for S8	No class	Regular Class for S2, S4, S6 started after vacation Exam Registration begins for B.Tech S4/S6.	Regular classes for S2, S4, S6 June 8th Exam registration ends for S4 & S6	Second Series examination for S4, S6 & First Series examination for S2	Regular classes for S2, S4, S6	Second Series examination for S4, S6 & First Series examination for S2	Regular Classes June 16th Second CC for S2, June 26th Publish IA marks for S4/S6 June 27th Class ends Publish Attendance for S4/S6	Regular classes for S2 June 30th Exam Registration begins for S2	Regular classes for S2 July 12th Exam Registration ends for S2	Second Series examination for S2	Regular Classes for S2	Regular Classes August 1st third class committee meeting for S2	Regular Classes Aug 3rd Publish IA marks for S2 Aug 4th Class ends Publish Attendance for S2

Principal

VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, VAZHAKULAM

FIRST SERIES EXAMINATION - NOVEMBER 2022

TIMETABLE FOR SEMESTER III

DATE&DAY	TIME	SUBJECT							
		AD	CE	CG	CSE	EEE	ECE	IT	ME
04/11/2022 FRIDAY	9.30 am - 11.30 am	Discrete mathematical structures (MAT203)	Partial differential equation and complex analysis (MAT201)	Discrete mathematical structures (MAT203)	Discrete mathematical structures (MAT203)	Partial differential equation and complex analysis (MAT201)	Partial differential equation and complex analysis (MAT201)	Discrete mathematical structures (MAT203)	Partial differential equation and complex analysis (MAT201)
	1.45 pm - 3.45 pm	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)
07/11/2022 MONDAY	9.30 am - 11.30 am	Data Structures (CST201)	Mechanics of Solids (CET201)	Data Structures in C (CST201)	Data Structures in C (CST201)	Circuits and Networks (EET 201)	Solid State Devices (ECT201)	Data Structures (IT201)	Mechanics of Solids (MET201)
	1.45 pm - 3.45 pm	Design and Engineering (EST 200)	Design and Engineering (EST 200)	Design and Engineering (EST 200)	Design and Engineering (EST 200)	Design and Engineering (EST 200)	Professional Ethics (HUT200)	Professional Ethics (HUT200)	Professional Ethics (HUT200)
08/11/2022 TUESDAY	9.30 am - 11.30 am	Object oriented programming using Java (CST 205)	Fluid Mechanics & hydraulics (CET203)	Object oriented programming using Java (CST 205)	Object oriented programming using Java (CST 205)	Measurements & instrumentation (EET203)	Network Theory (ECT205)	Problem solving using Python(IT205)	Mechanics of Fluids (MET203)
09/11/2022 WEDNESDAY	9.30 am - 11.30 am	Logic System Design (CST 203)	Surveying & Geomatics (CET205)	Logic System Design (CST 203)	Logic System Design (CST 203)	Analog Electronic Circuits (EET205)	Logic circuit design (ECT 203)	Digital System Design (IT203)	Metallurgy & material science (MET205)
	1.45 pm - 3.45 pm	S3 Minor	S3 Minor	S3 Minor	S3 Minor	S3 Minor	S3 Minor	S3 Minor	S3 Minor

PRINCIPAL

VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, VAZHAKULAM

SECOND INTERNAL EXAMINATION - DECEMBER 2022

TIMETABLE FOR SEMESTER III

DATE&DAY	TIME	SUBJECT							
		AD	CE	CG	CSE	EEE	ECE	IT	ME
09/12/2022 FRIDAY	9.30 am - 11.30 am	Discrete mathematical structures (MAT203)	Partial differential equation and complex analysis (MAT201)	Discrete mathematical structures (MAT203)	Discrete mathematical structures (MAT203)	Partial differential equation and complex analysis (MAT201)	Partial differential equation and complex analysis (MAT201)	Discrete mathematical structures (MAT203)	Partial differential equation and complex analysis (MAT201)
	1.45 pm - 3.45 pm	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)	Sustainable Engineering (MCN201)
12/12/2022 MONDAY	9.30 am - 11.30 am	Data Structures (CST201)	Mechanics of Solids (CET201)	Data Structures in C (CST201)	Data Structures in C (CST201)	Circuits and Networks (EET 201)	Solid State Devices (ECT201)	Data Structures (IT201)	Mechanics of Solids (MET201)
	1.45 pm - 3.45 pm	Design and Engineering (EST 200)	Design and Engineering (EST 200)	Design and Engineering (EST 200)	Design and Engineering (EST 200)	Design and Engineering (EST 200)	Professional Ethics (HUT200)	Professional Ethics (HUT200)	Professional Ethics (HUT200)
13/12/2022 TUESDAY	9.30 am - 11.30 am	Object oriented programming using Java (CST 205)	Fluid Mechanics & hydraulics (CET203)	Object oriented programming using Java (CST 205)	Object oriented programming using Java (CST 205)	Measurements & instrumentation (EET203)	Network Theory (ECT205)	Problem solving using Python(IT205)	Mechanics of Fluids (MET203)
14/12/2022 WEDNESDAY	9.30 am - 11.30 am	Logic System Design (CST 203)	Surveying & Geomatics (CET205)	Logic System Design (CST 203)	Logic System Design (CST 203)	Analog Electronic Circuits (EET205)	Logic circuit design (ECT 203)	Digital System Design (IT203)	Metallurgy & material science (MET205)
	1.45 pm - 3.45 pm	S3 Minor	S3 Minor	S3 Minor	S3 Minor	S3 Minor	S3 Minor	S3 Minor	S3 Minor

PRINCIPAL

VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY,
VAZHAKULAM P.O, MUVATTUPUZHA, ERNAKULAM - 686670

COURSE INFORMATION SHEET

PROGRAMME: Electronics & Communication Engg.	DEGREE: B TECH
COURSE: ECT 205-Network Theory	SEMESTER: III CREDITS: 04
COURSE CODE: C204	COURSE TYPE: CORE
COURSE STREAM: Electronics Circuits and Instrumentation	CONTACT HOURS: 3+1 (Tutorial) hours/Week.
CORRESPONDING LAB COURSE CODE (IF ANY):	LAB COURSE NAME:
COURSE COORDINATOR NAME :	V.K.Vanitha Rugmoni

COURSE OBJECTIVES:

1	To make the students capable of analyzing any linear time invariant electrical network.
2	To study network theorem and Laplace transform methods of linear circuit analysis.
3	To study the transient response of networks subject to test signals.
4	To understand the network functions in single port and twoport network.
5	To examine two port networks using network parameters

JUSTIFICATION FOR CORELATION:

S.NO	RELATED POs	JUSTIFICATION
C 204.1	PO1	Students can perform network analysis by applying fundamental mathematical knowledge.
	PO2	Problems of main network elements can be identified and analysed.
	PO12	Knowledge of basic netwok analysis useful in lifelong learning.
C 204.2	PO1	By applying fundamental engineering knowledge students can perform circuit analysis using Laplace transform techniques.
	PO2	Complex engineering problems can be analysed using Laplace Transform.
	PO12	Knowledge of Laplace transform techniques and transient analysis are useful in lifelong learning.
C 204.3	PO1	Analysis of two port network requires engineering knowledge.
	PO2	The knowledge of two port network parameters is helpful for analyzing engineering problems.
	PO12	Knowledge of network functions and pole-zero are useful in lifelong learning.

CORELATION BETWEEN COURSE OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES:

S.NO	PSO 1	PSO 2	PSO 3
C 204.1	**2**	**-**	**1**
C 204.2	**2**	**-**	**1**
C 204.3	**2**	**-**	**2**

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

JUSTIFICATION FOR CORELATION:

S.NO	RELATED PSOs	JUSTIFICATION
C 204.1	PSO 1	The fundamental knowledge about basic circuit elements and application of network solving ideas is necessary for designing electronic products.
	PSO 3	Optimising electronics circuits to consume less power requires knowledge about circuit designing. So idea of basic circuit analysis and synthesis is necessary.
C 202.2	PSO 1	Laplace transform analysis and transient response of R,L& C helps in electronic Circuits design
	PSO 3	The knowledge of laplace transform helps in designing low power systems.
C 202.3	PSO 1	Design of communication and automation systems can be performed by analyzing network parameters
	PSO 3	Power consumption of any circuit can be optimized by evaluating network parameters.

GAPS IN THE SYLLABUS - TO MEET INDUSTRY/PROFESSION REQUIREMENTS:

S.NO	DESCRIPTION	PROPOSED ACTIONS
1	Transient Analysis using differential function	Handout provided
2	Simulation of networks using pspice software	Handout provided

TOPICS BEYOND SYLLABUS/ADVANCED TOPICS/DESIGN:

Sl.No	Topic	Reason for introduction
1	Network Filter-http://nptel.ac.in/courses/117105138/5	To understand and analyze the networks easily.

WEB SOURCE REFERENCES:

1	NPTEL Video Lecturers - http:// www.nptel.iitm.ac.in/ (for basic idea)
2	http://www.electronics-tutorials.ws

DELIVERY/INSTRUCTIONAL METHODOLOGIES:

✓ CHALK & TALK	✓ STUD ASSIGNMENT	✓ WEB RESOURCES	✓ TUTORIAL
✓ LCD/SMART BOARDS	☐ STUD. SEMINARS	☐ ADD-ON COURSES	✓ STUD. HOMEWORK

DELIVERY METHODS USED FOR EACH COURSE OUT COME:

S.NO	DELIVERY METHODS
C 204.1	CHALK & TALK, STUD. ASSIGNMENT, TUTORIAL ,STUD.HOME WORK, SMART BOARD
C 204.2	CHALK & TALK, STUD. ASSIGNMENT, TUTORIAL ,STUD.HOME WORK, SMART BOARD
C 204.3	CHALK & TALK, STUD. ASSIGNMENT, TUTORIAL ,STUD.HOME WORK, SMART BOARD

ASSESSMENT METHODOLOGIES-DIRECT:

✓ ASSIGNMENTS	☐ STUD. SEMINARS	✓ TESTS/MODEL EXAMS	✓ UNIV EXAMINATION
☐ STUD. LAB PRACTICES	STUD. VIVA	☐ MINI/MAJOR PROJECTS	☐ CERTIFICATIONS
☐ ADD-ON COURSES	GROUP TASKS	☐ OTHERS	

Prepared by
(Course Coordinator)
Name and Signature (V K Vanitha Rugmoni)

Approved by
(Programme Coordinator)
Name and Signature
(HoD ECE)

ECT205	NETWORK THEORY	CATEGORY	L	T	P	CREDIT
		PCC	3	1	0	4

Preamble: This course aims to analyze the linear time invariant electronic circuits.

Prerequisite: EST130 Basics of Electrical and Electronics Engineering

MAT102 Vector Calculus. Differential Equations and Transforms (Laplace Transform)

Course Outcomes: After the completion of the course the student will be able to

CO 1 K3	Apply Mesh / Node analysis or Network Theorems to obtain steady state response of the linear time invariant networks.
CO 2 K3	Apply Laplace Transforms to determine the transient behaviour of RLC networks.
CO 3 K3	Apply Network functions and Network Parameters to analyse the single port and two port networks.

Mapping of course outcomes with program outcomes

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	3	3										2
CO 2	3	3										2
CO 3	3	3										2

Assessment Pattern

Bloom's Category		Continuous Assessment Tests		End Semester Examination
		1	2	
Remember	K1	10	10	10
Understand	K2	20	20	20
Apply	K3	20	20	70
Analyse				
Evaluate				
Create				

Mark distribution

Total Marks	CIE	ESE	ESE Duration
150	50	100	3 hours

Continuous Internal Evaluation Pattern:

Attendance : 10 marks

Continuous Assessment Test (2 numbers) : 25 marks

Assignment/Quiz/Course project : 15 marks

COURSE DIARY

Name of Staff member	:	V.K. Vanitha Rugmoni
Mobile No.	:	7902377281
Designation	:	Assistant Professor
Department	:	Electronics & Communication Engg
Subject / Course	:	Network Theory (ECT205) Semester : III Year : 2022

VISWAJYOTHI
COLLEGE OF ENGINEERING & TECHNOLOGY
Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha
Ernakulam Dist., Kerala - 686 670
Tel: 0485 2262211 / 44
Email: vjcet@vjcet.org
www.vjcet.ac.in

Course Plan

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered
1			MODULE - 1
2	12-9-22 Monday	1 1st Hr	Review of Circuit elements & Kirchhoff's law, Independent & Dependent Source
3	12-9-22 Monday	2 6th Hr	Source Transformations, Mesh analysis Steps and Problem
4	13-9-22 Tuesday	3 5th Hr	Mesh analysis using independent Sources
5	13-9-22 Tuesday	4 7th Hr	Mesh analysis using dependent sources
6	15-9-22 Thursday	5 2nd Hr	Super mesh analysis using independent Sources
7	16-9-22 Friday	6 5th Hr	Super mesh analysis using dependent Sources
8	19-9-22 Monday	7 1st Hr	Nodal analysis using independent Sources
9	19-9-22 Monday	8 6th Hr	Nodal analysis using dependent Sources
10	20-9-22 Tuesday	9 5th Hr	Super node analysis using dependent Sources
11	20-9-22 Tuesday	10 7th Hr	Super node analysis using independent sources
12	22-9-22 Thursday	11 2nd Hr	Tutorial
13			

Course Plan

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered
14			MODULE - 2
15	23-9-22 Friday	12 5th Hr	Thevenin Theorem – DC analysis with dependent & independent source
16	26-9-22 Monday	13 1st Hr	Thevenin Theorem – AC analysis Norton Theorem – DC analysis
17	26-9-22 Monday	14 6th Hr	Norton Theorem – AC analysis with dependent & independent Source
18	27-9-22 Tuesday	15 5th Hr	Superposition Theorem – DC analysis with dependent & independent Source
19	27-9-22 Tuesday	16 7th Hr	Superposition Theorem – AC analysis with dependent & independent Source
20	29-9-22 Thursday	17 2nd Hr	Maximum Power Transfer Theorem for DC Circuit
21	30-9-22 Friday	18 5th Hr	Maximum Power Transfer Theorem for AC Circuit
22	1-10-22 Saturday	19 1st Hr	Reciprocity Theorem for AC and DC Circuit
23	1-10-22 Saturday	20 6th Hr	Tutorial
24			
25			MODULE - 3
26	6-10-22 Thursday	21 2nd Hr	Review of Laplace Transform

Course Plan

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered
27	7-10-22 Friday	22 5th Hr	Continuation for Review of Laplace Transform
28	10-10-22 Monday	23 1st Hr	Initial & final Value Theorem
29	10-10-22 Monday	24 6th Hr	Transformation of basic signals into S-domain
30	11-10-22 Tuesday	25 5th Hr	Transformation of Circuits into S-domain
31	11-10-22 Tuesday	26 7th Hr	Transient analysis of RL Circuits with impulse, Step, pulse, exponential & Sine
32	13-10-22 Thursday	27 2nd Hr	Transient analysis of RC Circuits with impulse, Step, Pulse, exponential & Sine
33	14-10-22 Friday	28 5th Hr	Transient analysis of RLC Circuits
34	17-10-22 Monday	29 1st Hr	Analysis of networks with transformed impedance and dependent Source
35	17-10-22 Monday	30 6th Hr	Continuation of network analysis with S-domain
36	18-10-22 Tuesday	31 5th Hr	Transient analysis using Network Theorems
37	18-10-22 Tuesday	32 7th Hr	Continuation of transient analysis using Network Theorem
38	20-10-22 Thursday	33 2nd Hr	Tutorial
39			

Course Plan

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered
40			MODULE - 4
41	21-10-22 Friday	34 5th Hr	Network functions for the single port network
42	27-10-22 Thursday	35 2nd Hr	Network functions for two port network
43	28-10-22 Friday	36 5th Hr	Properties of driving point and Transfer functions
44	31-10-22 Monday	37 1st Hr	Significance of poles & Zeros of network functions
45	31-10-22 Monday	38 6th Hr	Time domain response from pole Zero plot
46	1-11-22 Tuesday	39 5th Hr	Impulse function & Response
47	1-11-22 Tuesday	40 7th Hr	Network functions in the sinusoidal steady state
48	3-11-22 Thursday	41 2nd Hr	Magnitude & Phase response
49	10-11-22 Thursday	42 2nd Hr	Problems of Network functions
50	11-11-22 Friday	43 5th Hr	Tutorial
51			
52			

Course Plan

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered
53			MODULE - 5
54	14-11-22 Monday	44 1st Hr	Impedance parameters of two port network
55	14-11-22 Monday	45 6th Hr	Admittance parameters of two port network
56	15-11-22 Tuesday	46 5th Hr	Transmission parameters of two port network
57	15-11-22 Tuesday	47 7th Hr	Hybrid parameters of two port network
58	17-11-22 Thursday	48 2nd Hr	Interrelationships among parameter set
59	18-11-22 Friday	49 5th Hr	Continuation of Inter relationships
60	21-11-22 Monday	50 1st Hr	Series Connections of two port network
61	21-11-22 Monday	51 6th Hr	Parallel Connections of two port network
62	22-11-22 Tuesday	52 5th Hr	Reciprocal & Symmetrical of two Port network
63	22-11-22 Tuesday	53 7th Hr	Characteristic impedance, Image impedance and propagation Constant
64	24-11-22 Thursday	54 2nd Hr	Tutorial
65			

Course Plan

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered
66	28-11-22 Monday	55 1st Hr	Revision of Module - 1
67	28-11-22 Monday	56 6th Hr	Discussion of Module - 1 problems from KTU Question Paper
68	29-11-22 Tuesday	57 5th Hr	Test - Module 1
69	29-11-22 Tuesday	58 7th Hr	Revision of Module - 2
70	1-12-22 Thursday	59 2nd Hr	Discussion of Module - 2 problems from KTU Question Paper
71	2-12-22 Friday	60 5th Hr	Test - Module 2
72	5-12-22 Monday	61 1st Hr	Revision of Module - 3
73	5-12-22 Monday	61 6th Hr	Discussion of Module 3 problems from KTU Question Paper
74	6-12-22 Tuesday	62 5th Hr	Test Module 3
75	6-12-22 Tuesday	63 7th Hr	Revision of Module - 4
76	8-12-22 Thursday	64 2nd Hr	Discussion of Module 4 problems from KTU Question paper
77	15-12-22 Thursday	65 2nd Hr	Test Module 4
78	16-12-22 Friday	66 5th Hr	Revision of Module - 5

Course Plan

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered
79	19-12-22 Monday	67 1st Hr	Discussion of Module 5 problems from KTU Question paper
80	19-12-22 Monday	68 6th Hr	Test Module 5
81	20-12-22 Tuesday	69 5th Hr	Test Module 1, 2, 3
82	20-12-22 Tuesday	70 7th Hr	Test Module 4, 5
83			
84			
85			
86			
87			
88			
89			
90			
91			

Details of Assignments

No.	Date of submission	Date of return after evaluation	Description
1	27-10-2022	28-10-2022	1. Problem using Nodal analysis 2. Problem using Mesh analysis 3. Problem using Network Theorem
2	2-12-2022	5-12-2022	1. Problem to find time domain value using Laplace Transform in a switched Circuit 2. To find network functions for the given circuit
3	3-01-2023	5-01-2023	Problems to find Z, Y, T and h Parameters of 2 Port networks

Details of Tutorials

No.	Date	Description
1	26-9-22	Problems from Module - 1
2	17-10-22	Problems from Module - 2
3	22-11-22	Problems from Module - 3
4	6-12-22	Problems from Module - 4
5	20-12-22	Problems from Module - 5

Sl No.	NAME
1	AARATHY CHANDRAN
2	ABDUL RAHMAN M A
3	AKASH P J
4	ALAN VINCENT
5	ALBERT MICHAEL
6	ALBI BINU
7	ALBY ROY
8	ALEN THEKKEPUTHENPURAYIL VENU
9	ALWIN FRANCIS
10	ALWIN LABU
11	AMALA MARY SAJI
12	ANAND S
13	ANAND S
14	ANANDHU SHAJI
15	ANJANA PRADEEP
16	ANN BIBIN
17	ANN MARIA ELDHOSE
18	ANUVEDU M
19	ASHIK SUREENDRAN
20	ATHUL RANJITH
21	ATHULYA SURESH
22	BASIL JOY
23	BINIL GEORGE
24	CATHERINE SIBY
25	DEON JOSEPH
26	DEVAJITH SIVADAS
27	DONA SOMAN
28	FATHIMA FITHA BASHEER
29	HARIMADHAV B
30	JAISE MATHEW
31	JESNA MARIYAM PETER
32	JIKSON BINOBY
33	JOSEPH BABY
34	JOSEPH T. S
35	KARTHIK M.B.

Sl. No.														
1	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	a	✓	✓	a	✓	✓	✓	✓	✓	✓
3	✓	✓	✓	✓	[illegible]	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	✓	✓
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	✓	a	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13	✓	a	✓	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	a	a
18	✓	a	✓	✓	✓	✓	✓	a	✓	✓	✓	a	✓	✓
19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
22	✓	✓	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓	✓
23	✓	a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25	✓	✓	✓	✓	a	✓	✓	a	✓	✓	✓	a	✓	✓
26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
27	✓	✓	✓	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓
28	✓	a	a	a	✓	✓	✓	a	✓	✓	✓	✓	✓	✓
29	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
31	✓	a	a	a	✓	✓	✓	a	✓	✓	✓	✓	✓	✓
32	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
33	✓	a	✓	✓	✓	✓	✓	a	✓	✓	✓	✓	✓	✓
34	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
35	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Remedial Classes	Test I	Test II	Test III	[illegible]	Assg. I	Assg. II	Attendance Average %	Attendance Marks	Sessional Marks	Remarks
	32	30		10	10	10	92	10	41	
	18	22		10	8	10	85.5	10	35	
	15	25		10	7	10	81.1	10	35	
	45	34		9	10	10	97.2	10	45	
	15	25		10	10	9	88.3	10	35	
	30	22		9	10	10	100	10	38	
	9	21		10	10	8	77.6	9	35	
	17	23		10	2	10	66	8	35	✓
	37	32		—	10	—	96	10	35	
	18	22		10	9	10	82.8	10	35	
	14	23		10	10	10	79.8	10	36	
	13	27		10	9	10	81.5	10	35	
	32	37			10	—	91.8	10	35	
	25	22		8	10	10	86.8	8	35	
	43	45		10	10	10	[illegible]	10	47	
	28	30		10	10	10	96.2	10	47	
	36	35		10	10	10	96	10	43	
	12	27		10	9	10	81.9	10	35	
	8	12		10	10	8	70.4	10	30	
	42	42		10	10	10	83.3	10	46	
	23	21		10	10	10	87.8	10	38	
	22	26		9	10	10	83.5	10	39	
	27	25		10	10	10	91.8	10	38	
	25	23		10	10	10	96	10	38	
	20	26		10	5	10	78.4	8	35	
	22	28		10	10	9	92.6	10	38	
	35	27		9	10	10	94.6	10	41	
	20	27		10	9	10	78.8	8	35	
	25	23		10	10	9	91.5	10	37	
	30	28		10	10	8	97.3	10	41	
	35	32		9	10	10	91.9	10	42	
	31	27		10	10	10	94.6	10	48	
	14	25		10	9	10	67.9	10	35	
	18	23		10	10	9	89.2	10	35	
	21	19		8	10	10	87.9	10	35	

Sl. No.	NAME
36	LINSA BENNY
37	MANU B MENON
38	MATHEWS ROY
39	MINNA JOBY
40	MUHAMMED AFRIN MUHIYADHEEN
41	NAJAH SHIRIN
42	NANDHANA SUJEESH
43	NAVEEN JOHNY
44	NEVIN VINOD
45	NIVIL ANIL
46	NIVIN JAMES THOMAS
47	REBA S GEORGE
48	RIJIL VARGHESE
49	ROBBIN SHIBU
50	SANGEETH MADHU
51	SARAH JOHNSON
52	TANIA TOM
53	ARJUN JOSHY (Lateral Entry)
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	

T

Sl. No.	6/12	8/12	15/12	16/12	19/12	20/12	20/12	22/12	3/1	3/1	6/1	6/1	7/1	7/1
	7	2	2	5	1	5	7	2	5	7	2	5	1	6
36	x	x	x	x	x	x	x	x	a	a	x	x	a	a
37	a	a	a	a	a	a	a	a	a	a	a	a	a	a
38	x	a	x	x	x	x	x	x	x	x	x	x	x	x
39	x	a	x	x	x	x	x	x	a	a	a	x	x	x
40	x	x	x	x	x	x	x	x	x	x	x	x	x	x
41	x	x	x	x	x	x	x	x	x	x	x	x	x	x
42	x	x	x	x	x	x	x	x	x	x	x	x	x	x
43	x	a	x	x	x	x	x	x	x	x	x	x	x	x
44	x	x	x	x	x	x	x	x	x	x	x	x	x	x
45	x	x	x	x	a	x	x	a	x	x	x	x	x	x
46	x	x	x	x	x	x	x	x	x	x	x	x	x	x
47	x	a	x	x	x	x	x	x	x	x	x	x	a	x
48	x	x	x	x	x	x	x	x	x	x	x	x	x	x
49	x	a	x	x	x	x	x	x	x	x	x	x	x	x
50	x	x	x	x	x	x	x	x	x	x	x	x	x	x
51	x	x	x	x	x	x	x	x	x	x	x	x	x	x
52	x	x	x	x	x	x	x	x	x	x	x	x	x	x
53	x	a	x	x	x	x	x	x	a	a	x	x	x	x
54														
55														
56														
57														
58														
59														
60														
61														
62														
63														
64														
65														
66														
67														
68														
69														
70														

Remedial Classes	Test I	Test II	Test III	Assg III ~~Mid Sem Test~~	Assg. I	Assg. II	Attendance Percentage %	Attendance Marks	Sessional Marks	Remarks
	16	28		10	10	10	78.4	9	35	
				—	10	—	33.8			Long Leave due to Health issue
	17	22		10	9	10	89.2	10	35	
	20	26		10	10	10	95.6	10	37	
	40	38		10	9	10	100	10	40	
	40	30		10	9	10	97.3	10	43	
	18.5	28		10	10	10	91.9	10	35	
	40	32		10	10	10	98.7	10	43	
	17	22		9	10	10	91.9	10	35	
	19	21		10	9	10	86.5	10	35	
	20	30		5	10	10	100	10	38	
	16	22		10	10	8	96	10	35	
	23	18		8	10	10	93.3	10	35	
	20	18		10	8	10	93.3	10	35	
	36	30		10	10	8	98.7	10	42	
	40	42		10	10	10	100	10	46	
	20	18		5	10	10	100	10	35	
	11	9		10	10	5	93.3	10	30	
							Average :		37	
							Max Marks:		47	
							Min Marks:		35	

Subject Coverage

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered	Mode of Instruction
1			MODULE - 1	
2	12-9-22 Monday	1 1st Hr	Review of Circuit elements Kirchoff's law	Chalk & Talk
3	13-9-22 Tuesday	2 2nd Hr	Independent & Dependent Sources	Chalk & Talk
4	13-9-22 Tuesday	3 7th Hr	Source Transformation Mesh analysis	Chalk & Talk
5	14-9-22 Wednesday	4 4th Hr	Problems using Source Transformation & Mesh analysis	Chalk & Talk
6	14-9-22 Wednesday	5 7th Hr	Mesh analysis of Circuit with independent Source	Chalk & Talk
7	15-9-22 Thursday	6 2nd Hr	Mesh analysis of Circuit with dependent Source	Chalk & Talk
8	15-9-22 Thursday	7 5th Hr	Continuation of Mesh Circuit with dependent Source	Chalk & Talk
9	16-9-22 Friday	8 6th Hr	Supermesh analysis	Chalk & Talk
10	19-9-22 Monday	9 1st Hr	Continuation of Supermesh analysis	Chalk & Talk
11	19-9-22 Monday	10 6th Hr	Node analysis of Circuit with independent Source	Chalk & Talk
12	20-9-22 Tuesday	11 1st Hr	Node analysis of Circuit with dependent Source	Chalk & Talk
13	20-9-22 Tuesday	12 7th Hr	Continuation of node Circuit with dependent Source	Chalk & Talk

Subject Coverage

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered	Mode of Instruction
14	22-9-22 Thursday	13 2nd Hr	Supernode analysis	Chalk & Talk
15	22-9-22 Thursday	14 5th Hr	Continuation of Supernode analysis	Chalk & Talk
16	26-9-22 Monday	15 1st Hr	Tutorial - 1	Chalk & Talk
17			MODULE - 2	
18	27-9-22 Tuesday	16 2nd Hr	Thevenin Theorem - Statement Steps & Problems	Chalk & Talk
19	27-9-22 Tuesday	17 7th Hr	Thevenin Theorem of DC Circuits	Chalk & Talk
20	28-9-22 Wednesday	18 1st Hr	Thevenin Theorem of AC circuits	Chalk & Talk
21	28-9-22 Wednesday	19 4th Hr	Norton Theorem - Statement Steps & Problems	Chalk & Talk
22	29-9-22 Thursday	20 1st Hr	Norton Theorem of DC Circuits	Chalk & Talk
23	29-9-22 Thursday	21 2nd Hr	Norton Theorem of AC Circuits	Chalk & Talk
24	29-9-22 Thursday	22 5th Hr	Superposition Theorem - Statement Steps & Problems	Chalk & Talk
25	30-9-22 Friday	23 6th Hr	Superposition Theorem of DC Circuits	Chalk & Talk
26	1-10-22 Saturday	24 1st Hr	Superposition Theorem of Ac Circuits	Chalk & Talk

Subject Coverage

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered	Mode of Instruction
27	10-10-22 Monday	25 1st Hr	Max. Power Transfer Theorem Statement, Step, Problems	Chalk & Talk
28	10-10-22 Monday	26 6th Hr	Max. Power Transfer theorem for DC Circuits	Chalk & Talk
29	11-10-22 Tuesday	27 5th Hr	Max. Power Transfer Theorem for AC Circuits	Chalk & Talk
30	14-10-22 Thursday	28 5th Hr	Reciprocity Theorem - Statement Step, Problems	Chalk & Talk
31	14-10-22 Thursday	29 6th Hr	Reciprocity Theorem for DC & AC Circuits	Chalk & Talk
32	17-10-22 Monday	30 1st Hr	Tutorial - 2	Chalk & Talk
33			MODULE - 3	
34	17-10-22 Monday	31 6th Hr	Laplace of basic signals	Chalk & Talk
35	18-10-22 Tuesday	32 5th Hr	Laplace transform - Properties and its Proof	Chalk & Talk PPT
36	18-10-22 Tuesday	33 7th Hr	Problems using Properties	Chalk & Talk
37	20-10-22 Thursday	34 2nd Hr	Problems using properties	Chalk & Talk
38	21-10-22 Friday	35 5th Hr	Inverse Laplace Transform	Chalk & Talk
39	27-10-22 Thursday	36 2nd Hr	Inverse Laplace Transform	Chalk & Talk

Subject Coverage

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered	Mode of Instruction
40	28-10-22 Friday	37 5th Hr	RL and RC Circuits with Step Input	Chalk & Talk
41	29-10-22 Satuday	38 5th Hr	RLC with Step input RL, RC & RLC with impulse i/p	Chalk & Talk
42	31-10-22 Monday	39 6th Hr	RL, RC & RLC with Pulse inputs	Chalk & Talk
43	14-11-22 Monday	40 1st Hr	RL, RC & RLC with Sine input	Chalk & Talk
44	14-11-22 Monday	41 2nd Hr	RL, RC & RLC with exponential input	Chalk & Talk
45	14-11-22 Monday	42 6th Hr	Problems with RC Circuit & Switch	Chalk & Talk
46	15-11-22 Tuesday	43 5th Hr	Problems with RL Circuit & Switch	Chalk & Talk
47	15-11-22 Tuesday	44 7th Hr	Problems with RLC Circuit & Switch	Chalk & Talk
48	16-11-22 Wednesday	45 3rd Hr	Solution for differential equations	Chalk & Talk
49	17-11-22 Thursday	46 2nd Hr	Continuation - Solution for differential equations	Chalk & Talk
50	17-11-22 Thursday	47 6th Hr	Laplace Transform of Periodic Waveforms	Chalk & Talk
51	18-11-22 Friday	48 5th Hr	Laplace Transform of Periodic fn - Continuation	Chalk & Talk
52	22-11-22 Monday	49 5th Hr	Problems using Initial & Final Value Theorem	Chalk & Talk

Subject Coverage

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered	Mode of Instruction
53	22-11-22 Monday	50 7th Hr	Tutorial - 3	Chalk & Talk
54			MODULE - 4	
55	24-11-22 Thursday	51 2nd Hr	Introduction to Network Functions Poles, Zeros and Pole-Zero plot	Chalk & Talk
56	28-11-22 Monday	52 1st Hr	Significance of Poles & Zeros. Pole-Zero plot from an expression	Chalk & Talk
57	28-11-22 Monday	53 6th Hr	Conditions of driving point & Transfer function	Chalk & Talk
58	28-11-22 Monday	54 7th Hr	Time domain response from Pole-Zero plot	Chalk & Talk
59	29-11-22 Tuesday	55 5th Hr	Problem from time domain equations.	Chalk & Talk
60	1-12-22 Thursday	56 2nd Hr	Impulse function and response.	Chalk & Talk
61	2-12-22 Friday	57 5th Hr	Networks functions in Sinusoidal Steady state	Chalk & Talk
62	5-12-22 Monday	58 1st Hr	Magnitude & Phase response	Chalk & Talk
63	5-12-22 Monday	59 8th Hr	Analysis of Network functions	Chalk & Talk
64	6-12-22 Tuesday	60 5th Hr	Tutorial - 4	Chalk & Talk
65				

Subject Coverage

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered	Mode of Instruction
66			MODULE-5	
67	6-12-22 Tuesday	61 7th Hr	Impedance & Admittance Parameters of 2 port network ?ns.	Chalk & Talk PPT
68	8-12-22 Thursday	62 2nd Hr	Transmissim & hybrid Parameters of 2 port n/w ?ns.	Chalk & Talk PPT
69	15-12-22 Thursday	63 2nd Hr	Problems to find Z & Y Parameters.	Chalk & Talk
70	16-12-22 Friday	64 5th Hr	Problems to find T & h Parameter. Symmtry & Reciprocity	Chalk & Talk PPT
71	19-12-22 Monday	65 1st Hr	Symmtry & Reciprocity and Verifying the Same	Chalk & Talk PPT
72	20-12-22 Tuesday	66 5th Hr	Interrelation of 2 port network functions	Chalk & Talk PPT
73	20-12-22 Tuesday	67 7th Hr	Tutorial - 5	Chalk & Talk
74	22-12-22 Thursday	68 2nd Hr	Interrelation of 2 port n/w ?ns & Problems	Chalk & Talk PPT
75	3-1-23 Tuesday	69 5th Hr	Interconnection of two 2 port networks	Chalk & Talk PPT
76	3-1-23 Tuesday	70 7th Hr	Interconnection of two 2 port n/ws & Problems.	Chalk & Talk PPT
77	5-1-23 Thursday	71 2nd Hr	Characteristic impedance, Image impedance & Propagatim Const. Revision	Chalk & Talk
78	6-1-23 Friday	72 5th Hr	Revision	Chalk & Talk

Subject Coverage

No.	Date & Day (Period)	Cumulative Hrs.	Topics to be Covered	Mode of Instruction
79	7-1-23 Saturday	73 1st Hr	Revision	Chalk & Talk
80	7-1-23 Saturday	74 6th Hr	Revision	Chalk & Talk
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				

VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SERIES TEST - I,November 2022

ECT 205 Network Theory

Name :............

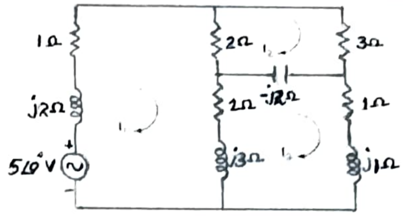
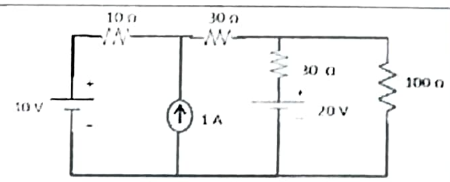
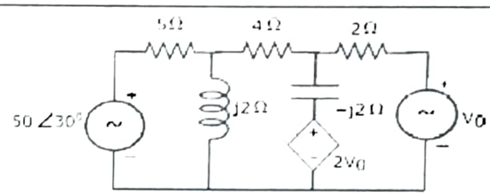
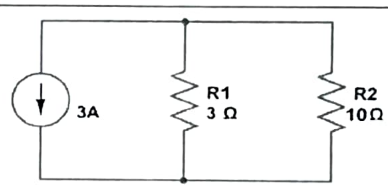
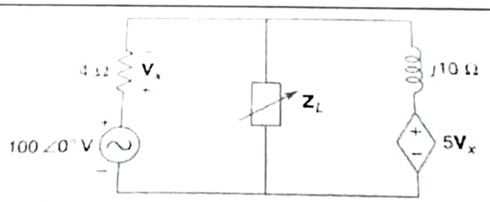
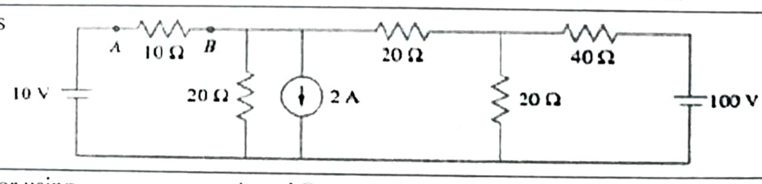
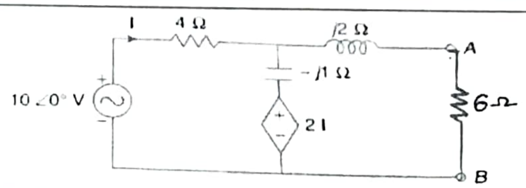
Roll No:............

Class:S3 EC

Duration : 2 Hrs

Max.Marks: 50

PART-A (Answer any 3 questions)

Q1	Find the voltage across capacitor using mesh analysis. Also find the power dissipated across 2Ω resistor		10	T2(C 204.1)
Q2	Find the current in 100 Ω resistor using nodal analysis.		10	T2 (C 204.1)
Q3	Find the value of Vo such that no current flows through 4Ω resistor.		10	T3 (C 204.1)
Q4	a)Discuss source transformation techniques. b)Find voltage across 10 Ω resistor using source transformation techniques. c)Define Thevenin and Norton Theorem.		2 3 5	T1 (C 204.1)
	PART-B(Answer any 2 questions)			
Q5	a)State and prove maximunm power transfer theorem for AC circuits. b)Find the value of load impedance Z_L so that maximum power can be transferred to it.Find maximum power.		5 5	T2 (C 204.1)
Q6	Determine the voltage across 10Ω resistor using superposition theorem		10	T2 (C 204.1)
Q	Find the current in 6Ω resistor using Nortons theorem and verify the results using Thevenin theorem.		10	T3 (C 204.1)

Course Outcomes : C 204.1 - Apply Mesh/Node analysis or Network Theorems to obtain steady state response of the linear time invariant networks.

Taxonomy : T1- Remember T2 - Understand ,T3 - Apply

Course Co-ordinator

Stream Co-ordinator

HOD

Name :.....
Roll No:.....

VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY

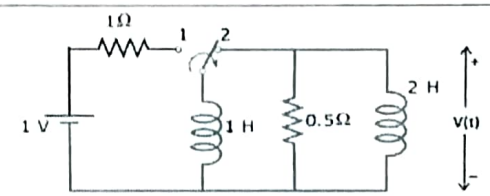
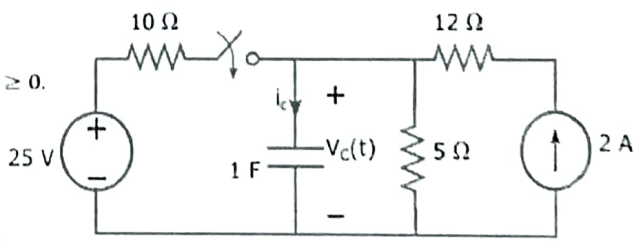
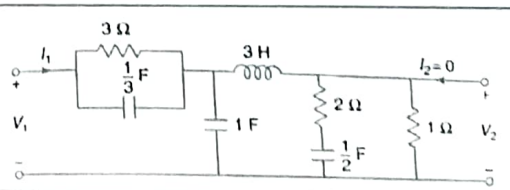
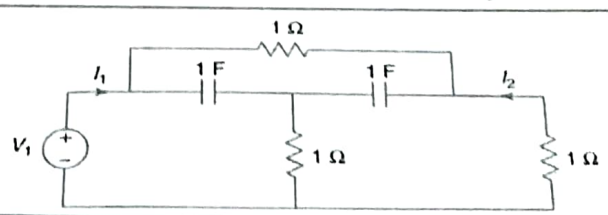
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SERIES TEST -II,December 2022

Class:S3 EC | **ECT 205 Network Theory** | **Max.Marks: 50**

Duration : 2 Hrs

PART-A (Answer all questions)

Q1	State initial value theorem and final value theorem.	**2**	T1(C 204.2)
Q2	Find expression for current when an unit step is given to a series RC circuit.	**3**	T2 (C 204.2)
Q3	Plot pole zero diagram for the given function. Also mention the nature of system. $F(s) = \frac{(S+6)(S+2)}{S(S+3)(s+5)}$	**2**	T2 (C 204.3)
Q4	Write the necessary conditions for the transfer functions.	**3**	T1 (C 204.3)
	PART-B(Answer all questions)		
Q5	a) Solve the differential equation using laplace transform $2y'' + 3y' - 2y = te^{-2t}, \quad y(0) = 0 \quad y'(0) = -2$ b) Draw Pole Zero Plot & Find the time domain response i(t). $I(S) = \frac{2S}{(S+2)(S^2+2S+2)}$	**10**	T3 (C 204.2)
Q6	a) The switch is in position 1 for a long time. At t = 0, it is moved to position 2. Find v(t) for $t \geq 0$.  b) The switch is opened for a long time. The switch is closed for $t \geq 0$. Find the expression of capacitor voltage $V_c(t)$ for $t \geq 0$. Then determine capacitor current i_c. 	**10**	T3 (C 204.2)
Q7	Determine $G_{21}(s), Z_{21}(s), Z_{11}(s)$ 	**10**	T3 (C 204.3)
Q8	Determine driving point admittance & transfer admittance 	**10**	T3 (C 204.3)

Course Outcomes : *C 204.2 - Apply Laplace Transforms to determine the transient behaviour of RLC networks.*
C204.3 - Apply Network functions and Network Parameters to analyse the single port and two port networks.

Taxonomy : *T1- Remember,T2 - Understand ,T3 - Apply*

U.K. Course Co-ordinator

Stream Co-ordinator

HOD

Series Test - 1 November 2022

Answer Key & Answer Scheme

Part - A

1) KVL to Mesh 1, $(4+j5)I_1 - 2I_2 - (1+3j)I_3 = 5\angle 0^\circ$

KVL to Mesh 2, $-2I_1 + (5-2j)I_2 + 2jI_3 = 0$

KVL to Mesh 3, $-(1+3j)I_1 + 2jI_2 + (2+2j)I_3 = 0$

$I_2 = 0.65 \angle 130.51^\circ A = -0.42 + 0.494j \ A$

$I_3 = 0.91 \angle -21.51^\circ A = 0.846 - 0.33j \ A$

$V_c = (-2j)(I_3 - I_2) = 3.03 \angle -123.12^\circ V$ — 2m

Power dissipated across 2Ω $= I^2R = (I_1 - I_2)^2 \times 2$

$I_1 = 1.217 \angle -42.36 = 0.899 - 0.82j$

$P_{2\Omega} = (0.899 - 0.82j + 0.42 - 0.494j)^2 \times 2$

$= 0.0263 - 6.932j = 6.93 \angle -89.78 \ W$ — 2

2) KCL at Node 1, $\frac{V_1 - 40}{10} + \frac{(V_1 - V_2)}{30} = 1$

$0.133V_1 - 0.033V_2 = 5$ — 3

KCL at Node 2, $\frac{V_2 - V_1}{30} + \frac{V_2 - 20}{30} + \frac{V_2}{100} = 0$

$-0.033V_1 + 0.076V_2 = 0.66$ — 3

Solving $V_2 = 28.11V$ — 2

$I_{100\Omega} = \frac{V_2}{100} = 0.2811 \ A$ — 2

3. KVL at Loop 1, $50\angle 30 - 5I_1 - 2j(I_1 - I_2) = 0$

KVL at Loop 2, $-4I_2 + 2j(I_2 - I_3) - 2V_0 - 2j(I_2 - I_1) = 0$

KVL at Loop 3, $-2I_3 - V_0 + 2V_0 + 2j(I_3 - I_2) = 0$

Current through 4Ω is $I_2 = 0$

$$50\angle 30 - 5I_1 - 2jI_1 = 0 \quad \text{——} (1)$$

$$-2jI_3 - 2V_0 + 2jI_1 = 0 \quad \text{——} (2)$$

$$-2I_3 + V_0 + 2jI_3 = 0 \quad \text{——} (3)$$

From (1) $I_1 = \dfrac{50\angle 30}{5+2j} = 9.1898 + 1.324j$

(2) $\Rightarrow -2jI_3 - 2V_0 = 2.648 - 18.3796j$

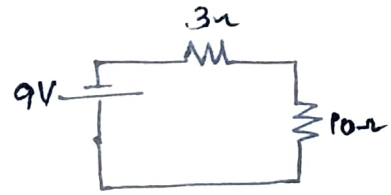
(3) $\Rightarrow (-2+2j)I_3 + V_0 = 0$

Solving $I_3 = -2.367 + 3.411j = 4.151\angle 124.75^\circ$ A

$V_0 = (2-2j)I_3 = 2.087 + 11.557j = 11.7\angle 79.75^\circ$ V

4. a) Source Transformation Techniques

b) Converting 3A to Voltage Source



$$V_{10\Omega} = -9 \times \frac{10}{13}$$

$$= -6.92$$

c) Statement of Thevenin Theorem

Statement of Norton Theorem

Part-B

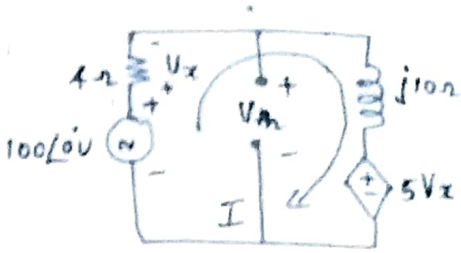
5. a) Statement of Maximum power transfer Theorem

Proof of the theorem

b)

$$Z_L = Z_{th}^* \quad \text{where} \quad Z_{th} = \frac{V_{th}}{I_N}$$

From Circuit $V_x = 4I$



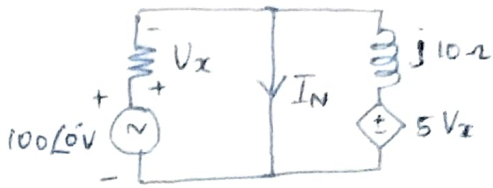
Mesh equation, $100\angle 0° - 4I - j10I - 5V_x = 0$

$$I = \frac{100\angle 0°}{24 + j10} = 3.85\angle -22.62° \text{ A}$$

V_{th} equation, $100\angle 0° - 4I - V_{th} = 0$

$$V_{th} = 86\angle 3.95° \text{ V}$$

$I_N = I_1 - I_2$



Mesh 1, $100\angle 0° - 4I_1 = 0$

$$I_1 = 25 \text{ A}$$

Mesh 2, $-j10I_2 - 5V_x = 0$ $\quad V_x = 4I_1$

$$-j10I_2 - 5(4I_1) = 0$$

$$I_2 = 50\angle 90° \text{ A}$$

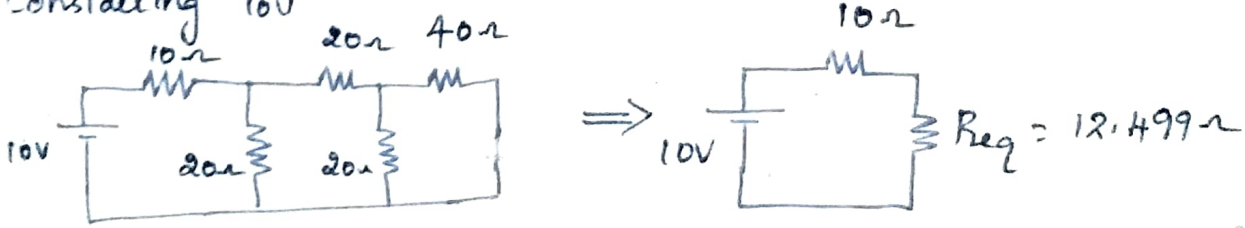
$$I_N = I_1 - I_2 = 55.9\angle -63.43° \text{ A}$$

$$Z_{th} = \frac{V_{th}}{I_N} = 1.54\angle 67.38° \Omega = (0.59 + j1.42)\Omega$$

$$Z_L = 0.59 - j1.42 \Omega$$

$$P_{max} = \frac{|V_{th}|^2}{4R_L} = \frac{(86)^2}{4 \times 0.59} = 3133.9 \text{ W}$$

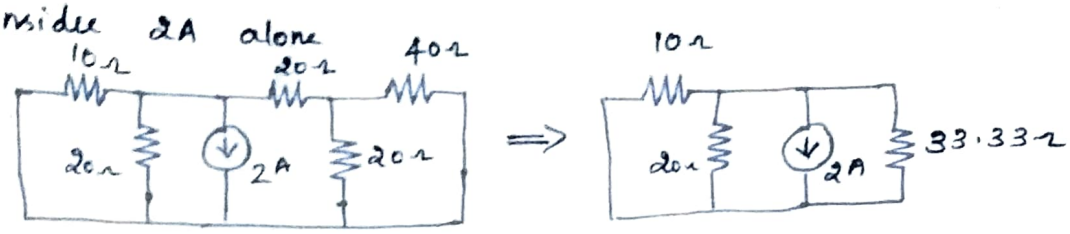
6. Considering 10V



$$R_{eq} = \{(20 // 40) + 20\} // 20 = 33.33 // 20 = 12.49\Omega$$

$$V_{10\Omega} = 10 \times \frac{10}{10 + 12.499} = 4.44 \text{ V}$$

Consider 2A alone



$-10I_1 - 20(I_1 - I_2) = 0 \implies -30I_1 + 20I_2 = 0$

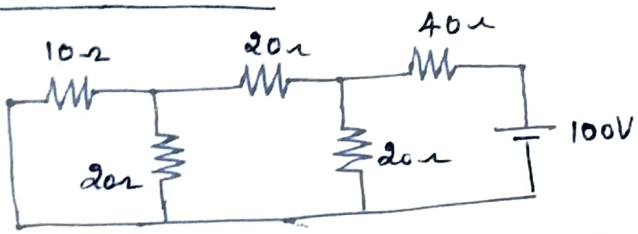
$-20(I_2 - I_1) - 33.33I_3 = 0 \implies 20I_1 - 20I_2 - 33.33I_3 = 0$

$I_2 - I_3 = 2 \implies 0I_1 + I_2 - I_3 = 2$

$I_1 = 1.11\,A \quad I_2 = 1.66\,A \quad I_3 = -0.33\,A$

$V''_{10\Omega} = I_1 R = 1.11 \times 10 = 11.1\,V$

Consider 100V alone



$-10I_1 - 20(I_1 - I_2) = 0 \implies -30I_1 + 20I_2 = 0$

$-20I_2 - 20(I_2 - I_1) - 20(I_2 - I_3) = 0 \implies 20I_1 - 60I_2 + 20I_3 = 0$

$-20(I_3 - I_2) - 40I_3 - 100 = 0 \implies 20I_2 - 60I_3 = 100$

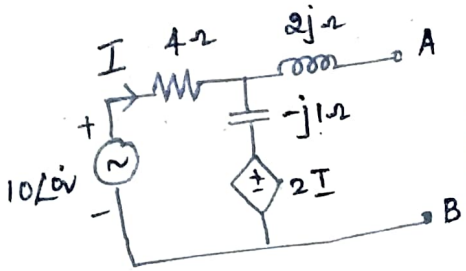
$I_1 = -0.55 \quad I_2 = -0.833 \quad I_3 = -1.944$

$V'''_{10\Omega} = I_1 R = -0.55 \times 10 = -5.5\,V$

Voltage across $10\Omega = 4.44 + 11.1 - 5.5 = 10.04\,V \simeq 10\,V$

7. V_{th} equation : $10\angle 0^\circ - 4I - V_{th} = 0$

From Circuit



$V = 10\angle 0 - 4I + j1I - 2I$

$I = 1.64\angle 9.46^\circ\,A$

$V_{th} = 3.69\angle -17^\circ\,V$

Mesh 1 eqn, $10\angle 0^\circ - 4I_1 + j1(I_1 - I_2) - 2I_1 = 0$

$(6 - j1)I_1 + j1I_2 = 10\angle 0^\circ$

Mesh 2 eqn, $2I_1 + j1(I_2 - I_1) - 2jI_2 = 0$

$$(2 - j1)I_1 - j1\,I_2 = 0$$

Solving,

$$I_2 = 2.71 \angle -102.53^\circ A$$

$$I_N = 2.71 \angle -102.53^\circ A = -0.5879 - 2.645j$$

$$Z_{th} = \frac{U_{th}}{I_N} = 1.36 \angle 85.53^\circ \Omega = 0.1059 + 1.355j$$

$$I_L = I_N \cdot \frac{R_{th}}{Z_L + Z_{th}} = 0.512 - 0.29j = 0.588 \angle -29.51^\circ A$$

MAIN ANSWER SHEET

VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY
VAZHAKULAM

Series Test : I/II/III Date: 8/11/22

Subject with Code : NT ECT 205

Name of Candidate: ALAN VINCENT Roll No: 4

Semester & Branch: S3 ECE

Qn. No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
Marks	0	10	10	9	6	0	10									45/50

Vision Statement

"Moulding professionals par excellence with integrity, fairness and human values"

KCL at node 2

$$0 = \frac{V_2 - V_1}{30} + \frac{V_2 - 20}{30} + \frac{V_2}{100}$$

$$0 = \frac{V_2}{30} - \frac{V_1}{30} + \frac{V_2}{30} - \frac{20}{30} + \frac{V_2}{100}$$

$$\frac{20}{30} = \frac{2V_2}{30} + \frac{V_2}{100} - \frac{V_1}{30}$$

$$\frac{2}{3} = V_2\left(\frac{2}{30} + \frac{1}{100}\right) - \frac{V_1}{30}$$

$$\frac{2}{3} = \frac{-V_1}{30} + V_2\left(\frac{2}{30} + \frac{1}{100}\right) \quad -②$$

MAIN ANSWER SHEET

VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY
VAZHAKULAM

Series Test : I/II/III Date: 13-12-19

Subject with Code : Network Theory

Name of Candidate: Anjana Pradeep Roll No: 15

Semester & Branch: S3 ECE

Qn. No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
Marks	2	3	12		5½	7½	4	3								45/50

Vision Statement

"Moulding professionals par excellence with integrity, fairness and human values"

Applying

$$Ri(t) + \frac{1}{C}\int i(t)\,dt + v_c(0) - E\,u(t)$$

$$Ri(t) + \frac{1}{C}\int i(t)\,dt = E\,u(t)$$

Taking laplace transform

$$RI(s) + \frac{1}{C}\frac{I(s)}{s} = \frac{E}{s}$$

$$I(s)\left[R + \frac{1}{Cs}\right] = \frac{E}{s}$$

$$I(s)\left[\frac{RCs+1}{Cs}\right] = \frac{E}{s}$$

$$I(s) = \frac{E}{s} \times \frac{Cs}{RCs+1}$$

VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY,VAZHAKULAM
DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING

ECT 205 : NETWORK THEORY (S3 ECE)
STUDENTS LIST (SERIES TEST-1)

* Two Categories based on Criteria 2 (Students scoring more than 80% & less than 40% of total marks)

Roll No.	Name	Series Test-1 Marks	
4	ALAN VINCENT	45.0	>=80% (7)
15	ANJANA PRADEEP	43.0	
20	ATHUL RANJITH	42.0	
40	MUHAMMED AFRIN MUHIYADHEEN	40.0	
41	NAJAH SHIRIN	40.0	
43	NAVEEN JOHNY	40.0	
51	SARAH JOHNSON	40.0	
9	ALWIN FRANCIS	37.0	<80% & >=45% (26)
17	ANN MARIA ELDHOSE	36.0	
50	SANGEETH MADHU	36.0	
27	DONA SOMAN	35.0	
31	JESNA MARIYAM PETER	35.0	
1	AARATHY CHANDRAN	32.0	
13	ANAND S	32.0	
32	JIKSON BINOBY	31.0	
6	ALBI BINU	30.0	
30	JAISE MATHEW	30.0	
16	ANN BIBIN	28.0	
22	BASIL JOY	28.0	
23	BINIL GEORGE	27.0	
14	ANANDHU SHAJI	25.0	
24	CATHERINE SIBY	25.0	
29	HARIMADHAV B	25.0	
21	ATHULYA SURESH	23.0	
35	KARTHIK M B	23.0	
48	RIJIL VARGHESE	23.0	
26	DEVAJITH SIVADAS	22.0	
25	DEON JOSEPH	20.0	
28	FATHIMA FITHA BASHEER	20.0	
39	MINNA JOBY	20.0	
46	NIVIN JAMES THOMAS	20.0	
49	ROBBIN SHIBU	20.0	
52	TANIA TOM	20.0	
45	NIVIL ANIL	19.0	<45% (20)
2	ABDUL RAHMAN M A	18.0	
7	ALBY ROY	18.0	
8	ALEN THEKKEPUTHENPURAYIL VENU	18.0	
10	ALWIN LABU	18.0	
34	JOSEPH T S	18.0	
38	MATHEWS ROY	17.0	
44	NEVIN VINOD	17.0	
36	LINSA BENNY	16.0	
47	REBA S GEORGE	16.0	
3	AKASH P J	15.0	
5	ALBERT MICHAEL	15.0	
37	MANU B MENON	15.0	
11	AMALA MARY SAJI	14.0	
33	JOSEPH BABY	14.0	
12	ANAND S	13.0	
42	NANDHANA SUJEESH	12.5	
18	ANUVEDU M	12.0	
53	ARJUN JYOSHY	9.0	
19	ASHIK SUREENDRAN	8.0	

VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY,VAZHAKULAM
DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING

ECT 205 : NETWORK THEORY (S3 ECE)
STUDENTS LIST (SERIES TEST-2)

* Two Categories based on Criteria 2 (Students scoring more than 80% & less than 40% of total marks)

Roll No.	Name	Series Test-2 Marks	
15	ANJANA PRADEEP	45.0	>=80% (3)
20	ATHUL RANJITH	42.0	
51	SARAH JOHNSON	42.0	
40	MUHAMMED AFRIN MUHIYADHEEN	38.0	<80% & >=45% (43)
13	ANAND S	37.0	
17	ANN MARIA ELDHOSE	35.0	
4	ALAN VINCENT	34.0	
9	ALWIN FRANCIS	32.0	
30	JAISE MATHEW	32.0	
31	JESNA MARIYAM PETER	32.0	
43	NAVEEN JOHNY	32.0	
1	AARATHY CHANDRAN	30.0	
16	ANN BIBIN	30.0	
41	NAJAH SHIRIN	30.0	
46	NIVIN JAMES THOMAS	30.0	
50	SANGEETH MADHU	30.0	
8	ALEN THEKKEPUTHENPURAYIL VENU	28.0	
11	AMALA MARY SAJI	28.0	
21	ATHULYA SURESH	28.0	
26	DEVAJITH SIVADAS	28.0	
36	LINSA BENNY	28.0	
42	NANDHANA SUJEESH	28.0	
12	ANAND S	27.0	
18	ANUVEDU M	27.0	
24	CATHERINE SIBY	27.0	
27	DONA SOMAN	27.0	
28	FATHIMA FITHA BASHEER	27.0	
32	JIKSON BINOBY	27.0	
22	BASIL JOY	26.0	
25	DEON JOSEPH	26.0	
39	MINNA JOBY	26.0	
3	AKASH P J	25.0	
5	ALBERT MICHAEL	25.0	
23	BINIL GEORGE	25.0	
33	JOSEPH BABY	25.0	
7	ALBY ROY	24.0	
29	HARIMADHAV B	23.0	
34	JOSEPH T S	23.0	
2	ABDUL RAHMAN M A	22.0	
10	ALWIN LABU	22.0	
14	ANANDHU SHAJI	22.0	
38	MATHEWS ROY	22.0	
44	NEVIN VINOD	22.0	
47	REBA S GEORGE	22.0	
45	NIVIL ANIL	21.0	
6	ALBI BINU	20.0	
35	KARTHIK M B	18.0	<45% (6)
48	RIJIL VARGHESE	18.0	
49	ROBBIN SHIBU	18.0	
52	TANIA TOM	18.0	
19	ASHIK SUREENDRAN	12.0	
53	ARJUN JYOSHY	9.0	
37	MANU B MENON	Discontinued	

*Generated on: 2023-01-10,15:17:28

APJ Abdul Kalam Technological University
CET Campus, Thiruvananthapuram
Kerala -695016
India

VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY

Students Examination Eligibility Details

Academic Year : 2022 - 2023

Degree Type : Regular

Program : B.Tech(Full Time)

Branch : ELECTRONICS AND COMMUNICATION ENGINEERING

Semester : S3

Course Name : NETWORK THEORY-ECT205

Batch : ECE B BATCH

Eligibility For : Pursuing Students

Period of Registration : NA

Student Name	Attendance %, Internal Marks/50	Availed Leaves	Disc. Action	Eligible for Written Exam	Status:	In-eligibility Type
AARATHY CHANDRAN Register No : VJC21EC001	Attendance : 92.0 Internals : 41.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ABDUL RAHMAN M. A Register No : VJC21EC002	Attendance : 86.5 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
AKASH P J Register No : VJC21EC003	Attendance : 81.1 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ALAN VINCENT Register No : VJC21EC004	Attendance : 97.3 Internals : 45.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	

ALBERT MICHAEL Register No : VJC21EC005	Attendance : 89.2 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ALBI BINU Register No : VJC21EC006	Attendance : 100.0 Internals : 38.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ALBY ROY Register No : VJC21EC007	Attendance : 78.4 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ALEN THEKKEPUTHENPURAYIL VENU Register No : VJC21EC008	Attendance : 65.0 Internals : 35.0/50	Long Leave : Yes Duty Leave :		Yes	Submitted by college	
ALWIN FRANCIS Register No : VJC21EC010	Attendance : 96.0 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ALWIN LABU Register No : VJC21EC011	Attendance : 87.9 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
AMALA MARY SAJI Register No : VJC21EC012	Attendance : 87.9 Internals : 36.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ANANDHU SHAJI Register No : VJC21EC013	Attendance : 75.0 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ANAND S Register No : VJC21EC014	Attendance : 91.9 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ANAND S Register No : VJC21EC015	Attendance : 86.5 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	

ANJANA PRADEEP Register No : VJC21EC016	Attendance : 100.0 Internals : 47.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ANN BIBIN Register No : VJC21EC017	Attendance : 98.7 Internals : 40.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ANN MARIA ELDHOSE Register No : VJC21EC018	Attendance : 96.0 Internals : 43.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ANUVEDU M Register No : VJC21EC019	Attendance : 86.5 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ASHIK SUREENDRAN Register No : VJC21EC020	Attendance : 90.6 Internals : 30.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ATHUL RANJITH Register No : VJC21EC021	Attendance : 93.3 Internals : 46.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ATHULYA SURESH Register No : VJC21EC022	Attendance : 83.8 Internals : 38.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
BASIL JOY Register No : VJC21EC023	Attendance : 85.2 Internals : 39.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
BINIL GEORGE Register No : VJC21EC024	Attendance : 91.9 Internals : 38.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
CATHERINE SIBY Register No : VJC21EC025	Attendance : 96.0 Internals : 38.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	

DEON JOSEPH Register No : VJC21EC026	Attendance : 75.0 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
DEVAJITH SIVADAS Register No : VJC21EC027	Attendance : 94.6 Internals : 38.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
DONA SOMAN Register No : VJC21EC028	Attendance : 94.6 Internals : 41.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
FATHIMA FITHA BASHEER Register No : VJC21EC029	Attendance : 75.0 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
HARIMADHAV B Register No : VJC21EC030	Attendance : 86.5 Internals : 37.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
JAISE MATHEW Register No : VJC21EC031	Attendance : 97.3 Internals : 41.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
JESNA MARIYAM PETER Register No : VJC21EC032	Attendance : 91.9 Internals : 42.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
JIKSON BINOBY Register No : VJC21EC033	Attendance : 94.6 Internals : 40.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
JOSEPH BABY Register No : VJC21EC034	Attendance : 87.9 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
JOSEPH T S Register No : VJC21EC035	Attendance : 89.2 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	

KARTHIK M B Register No : VJC21EC036	Attendance : 87.9 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
LINSA BENNY Register No : VJC21EC037	Attendance : 78.4 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
MANU B MENON Register No : VJC21EC038	Attendance : 33.8 Internals :	Long Leave : Duty Leave :		No	Submitted by college	Less Attendance
MATHEWS ROY Register No : VJC21EC039	Attendance : 89.2 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
MINNA JOBY Register No : VJC21EC040	Attendance : 90.6 Internals : 37.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
MUHAMMED AFRIN MUHIYADHEEN Register No : VJC21EC041	Attendance : 100.0 Internals : 40.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
NAJAH SHIRIN Register No : VJC21EC042	Attendance : 97.3 Internals : 43.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
NANDHANA SUJEESH Register No : VJC21EC043	Attendance : 91.9 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
NAVEEN JOHNY Register No : VJC21EC044	Attendance : 98.7 Internals : 43.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
NEVIN VINOD Register No : VJC21EC045	Attendance : 91.9 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	

NIVIL ANIL Register No : VJC21EC046	Attendance : 86.5 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
NIVIN JAMES THOMAS Register No : VJC21EC047	Attendance : 100.0 Internals : 38.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
REBA S GEORGE Register No : VJC21EC048	Attendance : 96.0 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
RIJIL VARGHESE Register No : VJC21EC049	Attendance : 93.3 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
ROBBIN SHIBU Register No : VJC21EC050	Attendance : 93.3 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
SANGEETH MADHU Register No : VJC21EC051	Attendance : 98.7 Internals : 42.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
SARAH JOHNSON Register No : VJC21EC052	Attendance : 100.0 Internals : 46.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
TANIA TOM Register No : VJC21EC053	Attendance : 100.0 Internals : 35.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	
Arjun Joshy Register No : LVJC21EC054	Attendance : 93.3 Internals : 30.0/50	Long Leave : Duty Leave :		Yes	Submitted by college	

Viswajyothi College of Engineering and Technology, Vazhakulam P.O

Examination Register

Class : S3-EC

Paper : ECT205 NETWORK THEORY

Roll No	Name	AM 1(10)	Series 1(50)	Series 3(50)	Assignment 1(10)	Assignment 2(10)	Assignment 3(10)	MakeUp Test(60)	Attendance %	AM(10)	Test Marks(25)	Assignment (15)	Sessional Mark(50)
01	AARATHY CHANDRAN	10.0	32.0	30.0	10.0	10.0	10.0	.0	83.0	10.0	15.5	15.0	41.
02	ABDUL RAHMAN M.A	10.0	18.0	22.0	8.0	10.0	10.0	.0	93.0	10.0	10.0	15.0	35.
03	AKASH P J	10.0	15.0	25.0	7.0	10.0	10.0	.0	80.0	10.0	10.0	15.0	35.
04	ALAN VINCENT	10.0	45.0	34.0	10.0	10.0	9.0	.0	98.0	10.0	19.8	15.0	45.
05	ALBERT MICHAEL	10.0	15.0	25.0	10.0	9.0	10.0	.0	85.0	10.0	10.0	15.0	35.
06	ALBI BINU	10.0	30.0	20.0	10.0	10.0	8.0	.0	100.0	10.0	12.5	15.0	38.
07	ALBY ROY	9.0	18.0	24.0	10.0	8.0	10.0	.0	78.0	9.0	10.5	15.0	35.
08	ALEN THEKKEPUTHENPURAYIL VENU	8.0	18.0	28.0	7.0	10.0	10.0	.0	23.0	8.0	11.5	15.0	35.
09	ALWIN FRANCIS	10.0	37.0	32.0	10.0			.0	98.0	10.0	17.3	7.5	35.
10	ALWIN LABU	10.0	18.0	22.0	8.0	10.0	10.0	.0	88.0	10.0	10.0	15.0	35.
11	AMALA MARY SAJI	10.0	14.0	28.0	10.0	10.0	10.0	.0	90.0	10.0	10.5	15.0	36.
12	ANAND S	10.0	13.0	27.0	9.0	10.0	10.0	.0	83.0	10.0	10.0	15.0	35.
13	ANAND S	10.0	32.0	37.0	10.0			.0	93.0	10.0	17.3	7.5	35.
14	ANANDHU SHAJI	8.0	25.0	22.0	10.0	10.0	8.0	.0	65.0	8.0	11.8	15.0	35.
15	ANJANA PRADEEP	10.0	43.0	45.0	10.0	10.0	10.0	.0	100.0	10.0	22.0	15.0	47.
16	ANN BIBIN	10.0	28.0	30.0	10.0	10.0	10.0	.0	100.0	10.0	14.5	15.0	40.
17	ANN MARIA ELDHOSE	10.0	36.0	35.0	10.0	10.0	10.0	.0	100.0	10.0	17.8	15.0	43.
18	ANUVEDU . M	10.0	12.0	27.0	9.0	10.0	10.0	.0	93.0	10.0	9.8	15.0	35.
19	ASHIK SUREENDRAN	10.0	8.0	12.0	10.0	8.0	10.0	.0	88.0	10.0	5.0	15.0	30.
20	ATHUL RANJITH	10.0	42.0	42.0	10.0	10.0	10.0	.0	95.0	10.0	21.0	15.0	46.
21	ATHULYA SURESH	10.0	23.0	28.0	10.0	10.0	10.0	.0	73.0	10.0	12.8	15.0	38.
22	BASIL JOY	10.0	28.0	26.0	10.0	10.0	9.0	.0	85.0	10.0	13.5	15.0	39.
23	BINIL GEORGE	10.0	27.0	25.0	10.0	10.0	10.0	.0	93.0	10.0	13.0	15.0	38.
24	CATHERINE SIBY	10.0	25.0	27.0	10.0	10.0	10.0	.0	95.0	10.0	13.0	15.0	38.
25	DEON JOSEPH	8.0	20.0	26.0	5.0	10.0	10.0	.0	80.0	8.0	11.5	15.0	35.

26	DEVAJITH SIVADAS	10.0	22.0	28.0	10.0	9.0	10.0	.0	93.0	10.0	12.5	15.0	38.
27	DONA SOMAN	10.0	35.0	27.0	10.0	10.0	9.0	.0	93.0	10.0	15.5	15.0	41.
28	FATHIMA FITHA	8.0	20.0	27.0	9.0	10.0	10.0	.0	70.0	8.0	11.8	15.0	35.
29	HARIMADHAV.B	10.0	25.0	23.0	10.0	8.0	10.0	.0	88.0	10.0	12.0	15.0	37.
30	JAISE MATHEW	10.0	30.0	32.0	10.0	8.0	10.0	.0	100.0	10.0	15.5	15.0	41.
31	JESNA MARIYAM PETER	10.0	35.0	32.0	10.0	10.0	9.0	.0	95.0	10.0	16.8	15.0	42.
32	JIKSON BINOBY	10.0	31.0	27.0	10.0	10.0	10.0	.0	88.0	10.0	14.5	15.0	40.
33	JOSEPH BABY	10.0	14.0	25.0	9.0	10.0	10.0	.0	93.0	10.0	9.8	15.0	35.
34	JOSEPH T S	10.0	18.0	23.0	10.0	9.0	10.0	.0	88.0	10.0	10.3	15.0	35.
35	KARTHIK MB	10.0	23.0	18.0	10.0	10.0	8.0	.0	93.0	10.0	10.3	15.0	35.
36	LINSA BENNY	9.0	16.0	28.0	10.0	10.0	10.0	.0	85.0	9.0	11.0	15.0	35.
37	MANU B MENON	.0	15.0		10.0			.0	63.0	.0	3.8	7.5	11.
38	MATHEWS ROY	10.0	17.0	22.0	9.0	10.0	10.0	.0	93.0	10.0	9.8	15.0	35.
39	MINNA JOBY	10.0	20.0	26.0	10.0	10.0	10.0	.0	95.0	10.0	11.5	15.0	37.
40	MUHAMMED AFRIN MUHIYADHEEN	10.0	40.0	38.0	7.0	7.0	7.0	.0	100.0	10.0	19.5	10.5	40.
41	NAJAH SHIRIN	10.0	40.0	30.0	9.0	10.0	10.0	.0	95.0	10.0	17.5	15.0	43.
42	NANDHANA SUJEESH	10.0	12.5	28.0	10.0	10.0	10.0	.0	95.0	10.0	10.1	15.0	35.
43	NAVEEN JOHNY	10.0	40.0	32.0	10.0	10.0	10.0	.0	100.0	10.0	18.0	15.0	43.
44	NEVIN VINOD	10.0	17.0	22.0	10.0	10.0	9.0	.0	93.0	10.0	9.8	15.0	35.
45	NIVIL ANIL	10.0	19.0	21.0	9.0	10.0	10.0	.0	95.0	10.0	10.0	15.0	35.
46	NIVIN JAMES THOMAS	10.0	20.0	30.0	10.0	10.0	5.0	.0	100.0	10.0	12.5	15.0	38.
47	REBA S GEORGE	10.0	16.0	22.0	10.0	8.0	10.0	.0	95.0	10.0	9.5	15.0	35.
48	RIJIL VARGHESE	10.0	23.0	18.0	10.0	10.0	8.0	.0	93.0	10.0	10.3	15.0	35.
49	ROBBIN SHIBU	10.0	20.0	18.0	8.0	10.0	10.0	.0	95.0	10.0	9.5	15.0	35.
50	SANGEETH MADHU	10.0	36.0	30.0	10.0	8.0	10.0	.0	98.0	10.0	16.5	15.0	42.
51	SARAH JOHNSON	10.0	40.0	42.0	10.0	10.0	10.0	.0	100.0	10.0	20.5	15.0	46.
52	TANIA TOM	10.0	20.0	18.0	10.0	10.0	5.0	.0	100.0	10.0	9.5	15.0	35.
53	ARJUN JOSHY	10.0		9.0	10.0	5.0	10.0	.0	95.0	10.0	4.5	15.0	30.
Total Mark													**1951.**
Avg													**37.**
Max Mark													**47.**
Min Mark													**11.**

ASSIGNMENT-1

NETWORK THEORY

SUBMITTED TO

VANITHA MISS

SUBMITTED BY

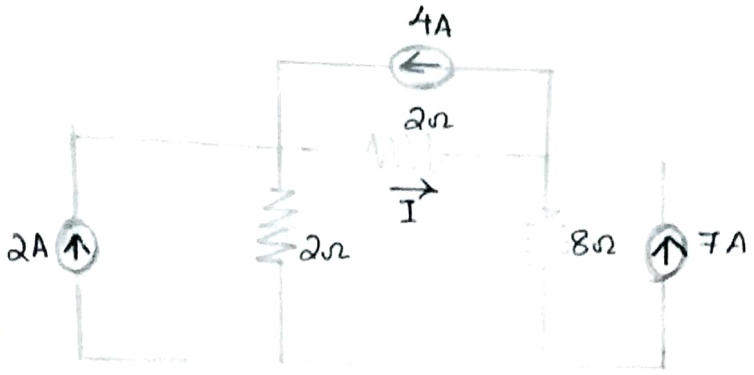
NAVEEN JOHNY

S3 ECE

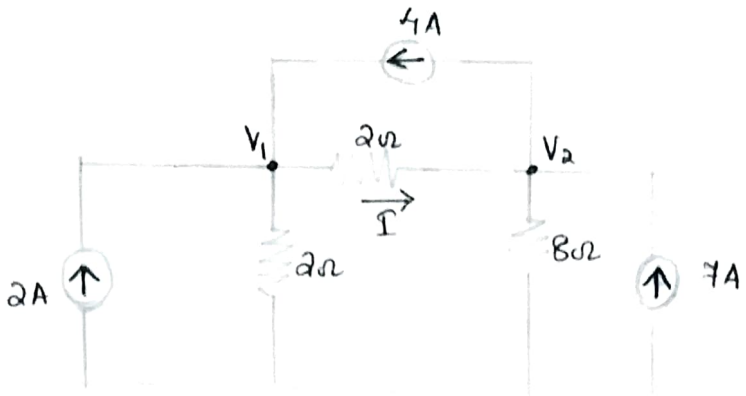
ROLL NO : 43

10/10

1) Find I using nodal analysis



Ans)



Let the node voltages be V_1 and V_2

Applying KCL (Kirchoff's current law, ie, sum of current towards the node = sum of currents flowing out of the node) in node 1.

ie, $4+2 = \frac{V_1}{2} + \frac{V_1 - V_2}{2}$

ie, $6 = 0.5V_1 + 0.5V_1 - 0.5V_2 \implies V_1 - 0.5V_2 = 6 \longrightarrow (1)$

Applying KCL in node 2,

$$7 = 4 + \frac{V_2}{8} + \frac{V_2 - V_1}{2}$$

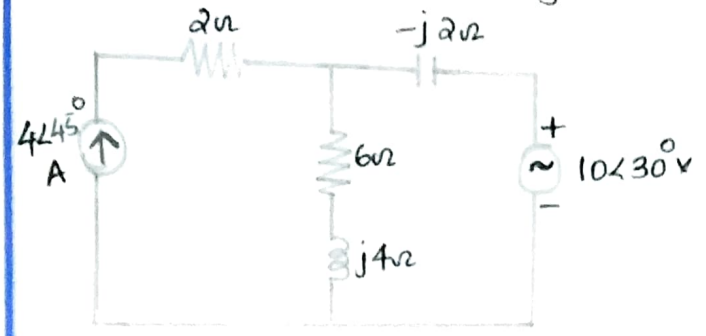
ie, $0.125V_2 + 0.5V_2 - 0.5V_1 = 7 - 4 \implies -0.5V_1 + 0.625V_2 = 3 \longrightarrow (2)$

Solving equations (1) and (2)

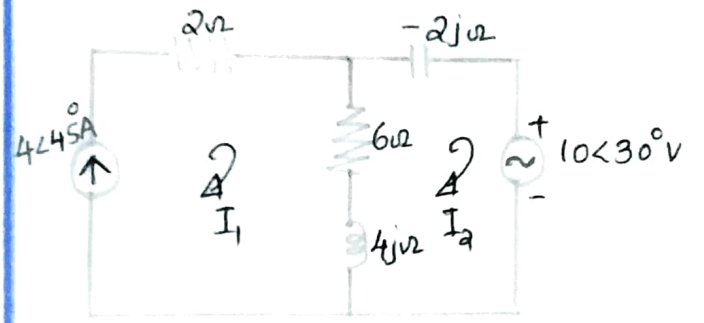
$\implies V_1 = 14\,V$ and $V_2 = 16\,V$

By Ohm's law, $I = \frac{V}{R}$ $\therefore$ Here $I = \frac{V_1 - V_2}{2} = \frac{14-16}{2} = \underline{-1A}$

2. Find voltage across 6Ω using mesh analysis.



Ans)



In Mesh 1, $I_1 = 4\angle 45^\circ A = 2.828 + 2.828j\ A$

Applying KVL on mesh 2,

$$-2jI_2 + 6I_2 - 6I_1 + 4jI_2 - 4jI_1 = -(10\angle 30^\circ)$$

$$(-6-4j)I_1 + (6+2j)I_2 = -8.66 - 5j$$

Substituting the value of I_1 in the above equation

$$-5.656 - 28.28j + (6+2j)I_2 = -8.66 - 5j$$

$$\text{i.e., } (6+2j)I_2 = -8.66 - 5j + 5.656 + 28.28j$$

$$\text{i.e., } I_2 = \frac{-3.004 + 23.28j}{6+2j} = 0.7134 + 3.642j\ A$$

$$= 3.71 \angle 78.917^\circ A$$

Voltage across 6Ω resistor, $V = IR$

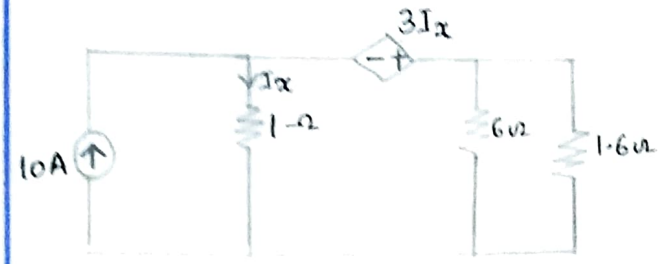
$I = (I_1 - I_2)$ · [with respect to 1st mesh]

∴ Voltage across 6Ω resistor = $[(2.828 + 2.828j) - (0.7134 + 3.642j)]$

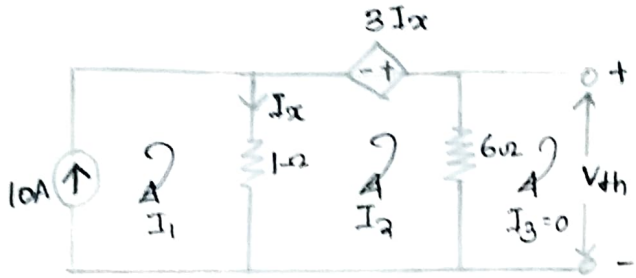
$$\times 6 = 12.687 - 4.88j$$

$$= 13.59 \angle -21.053 V$$

3) Find the current through 1.6Ω using Thevenin's theorem.



Ans) Finding V_{th}



In mesh1, $I_1 = 10A$

In mesh 3, $I_3 = 0\,A$

From the circuit $I_x = I_1 - I_2$

Applying KVL on mesh 2

$$6(I_2 - I_3) + (I_2 - I_1) = 3I_x$$

$$6I_2 + I_2 - 10 = 3(10 - I_2)$$

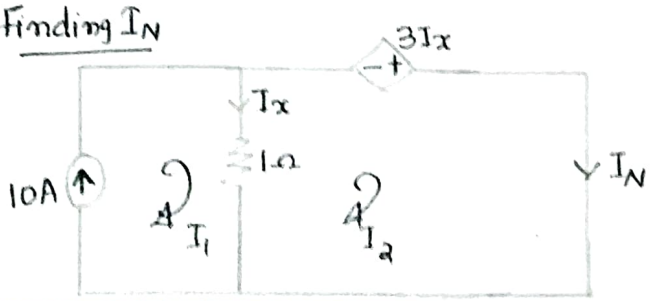
$$7I_2 - 10 = 30 - 3I_2 \Rightarrow 10I_2 = 40 \Rightarrow I_2 = 4\,A$$

Applying KVL to mesh3,

$$6(I_3 - I_2) = -V_{th} \text{ i.e., } -6I_2 = -V_{th}$$

$$\therefore V_{th} = 6 \times 4 = \underline{24V}$$ ✓

Finding I_N



$I_1 = 10A$

$I_x = I_1 - I_2$

Applying KVL to mesh 2,

$$1(I_2 - I_1) = 3I_x$$

$$I_2 - 10 = 3(10 - I_2)$$

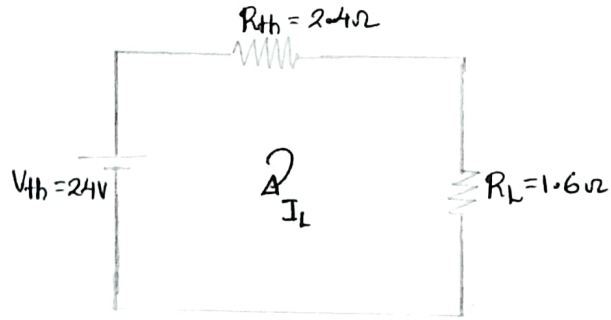
$$I_2 - 10 = 30 - I_2$$

$$4I_2 = 40 \Rightarrow I_2 = \underline{10A}$$

From the circuit, $I_N = I_2 = \underline{10A}$

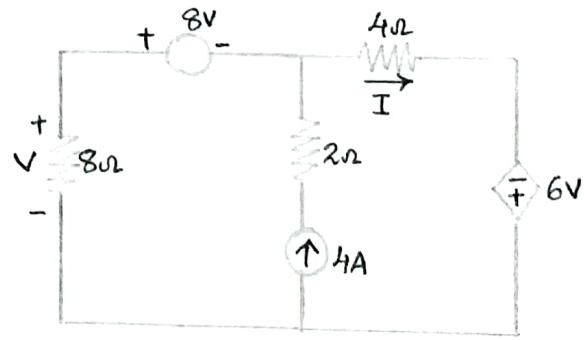
$$R_{th} = \frac{V_{th}}{I_N} = \frac{24}{10} = \underline{2.4\Omega}$$

∴ current through 1.6Ω resistor can be found out by drawing Thevenin's equivalent circuit.

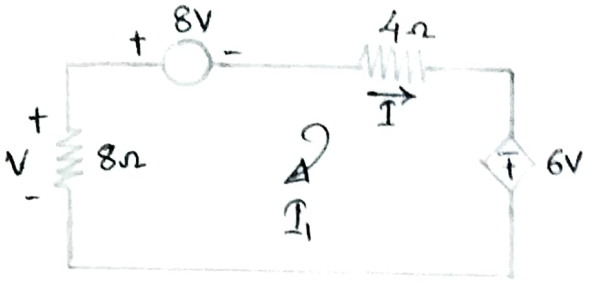


∴ current through 1.6Ω resistor $= \frac{V_{th}}{R_{th} + R_L} = \frac{24}{2.4 + 1.6} = \underline{6A}$

4) Determine the current through 4Ω using superposition theorem.



Considering 8V source alone



Applying KVL in mesh1,

$8I_1 + 4I_1 = -8 + 6V$

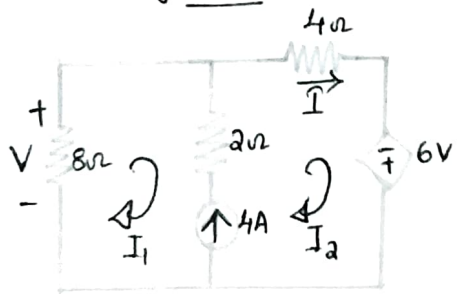
From the circuit $V = -8I_1$

$\therefore 8I_1 + 4I_1 = -8 - 48I_1$

i.e., $56I_1 + 4I_1 = -8 \Rightarrow 60I_1 = -8 \Rightarrow I_1 = -0.133A$

$\therefore$ current through 4Ω resistor is $I = I_1 = I'_{4\Omega} = -0.133A$

Considering 4A source alone



Applying KVL in supermesh(1 and 2),

$8I_1 + 4I_2 = 6V$

From the circuit $V = -8I_1$

$\therefore 8I_1 + 4I_2 = -48I_1$

i.e., $56I_1 + 4I_2 = 0 \longrightarrow (1)$

current source equation is, $I_2 - I_1 = 4$ i.e., $-I_1 + I_2 = 4 \longrightarrow (2)$

Solving equations (1) and (2)

$\Rightarrow I_1 = -0.266\,A, I_2 = 3.73\,A$

$\therefore$ current through 4Ω resistor is $I = I_2 = I''_{4\Omega} = 3.73A$

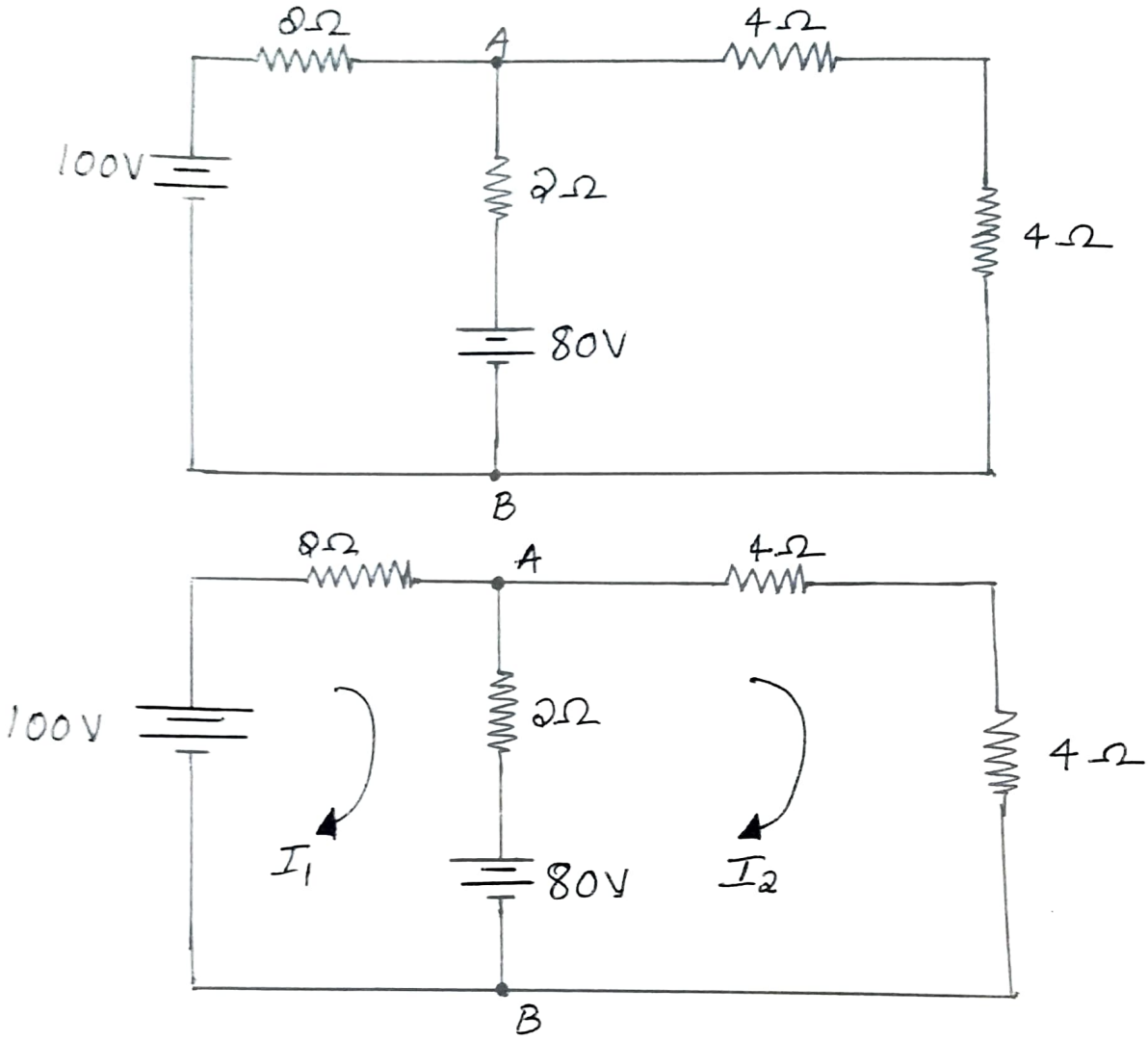
$\therefore$ Total current through 4Ω resistor $= I'_{4\Omega} + I''_{4\Omega} = -0.133 + 3.73$

i.e., $I_{4\Omega} = 3.6A$

NT TUTORIAL

Submitted by,
Tarathy Chandran
S_3 ECE
Roll no:-1

Find current through 2Ω resistor using mesh analysis



Applying KVL to mesh 1,

$$2I_1 + 2(I_1 - I_2) = -80 + 100$$

$$2I_1 + 2I_1 - 2I_2 = 20$$

$$4I_1 - 2I_2 = 20 \quad \text{---} \quad (1)$$

Applying KVL to mesh 2,

$$4I_2 + 4I_2 + 2(I_2 - I_1) = 80$$

$$8I_2 + 2I_2 - 2I_1 = 80$$

$$10I_2 - 2I_1 = 80 \quad \text{---} \quad (2)$$

On solving eqn ① & ② we get

$I_1 = \underline{10\ A}$, $I_2 = \underline{10\ A}$

Current through 2Ω resistor connected in B/w Point A & B is,

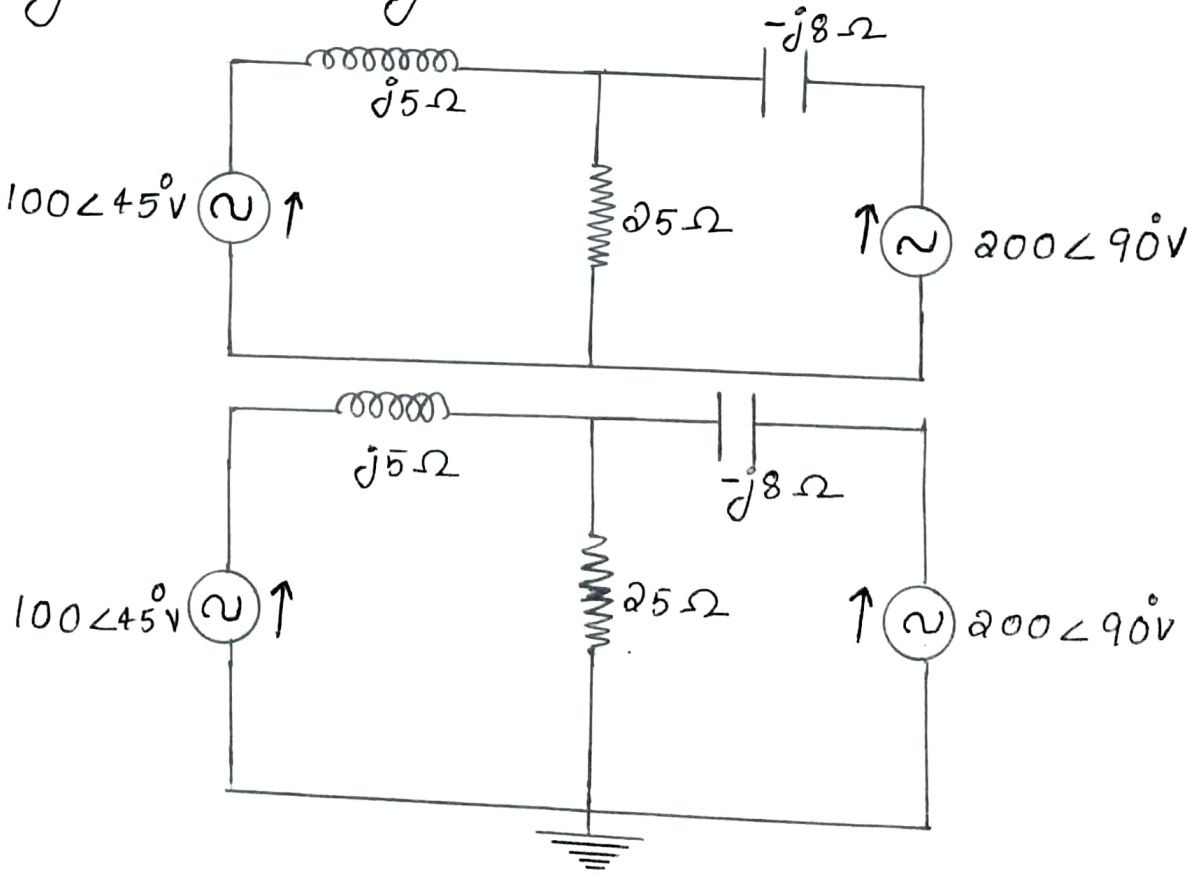
$= 2(I_2 - I_1)$ (w.r.t mesh 2)

$= 2[10 - 10]$

$= \underline{0\ A}$

Current through 2Ω resistor connected in B/w Point A & 100V is, $I_1 = \underline{10\ A}$

2) Evaluate current through 25Ω resistor using node analysis.



$100 \angle 45^\circ = 70.71 + 70.71j$, $200 \angle 90^\circ = 200j$

Apply KVL to node 1,

$$0 = \frac{v_1}{25} + \frac{v_1 - 100\angle 45}{j5} + \frac{v_1 - 200\angle 90}{-j8}$$

$$0 = \frac{v_1}{25} + \frac{v_1 - 70.71 + 70.71i}{5j} + \frac{v_1 - 200j}{-8j}$$

$$0 = \frac{v_1}{25} + \frac{v_1 - 200j}{-8j} + \frac{v_1 - 70.71 + 70.71i}{5j}$$

$$0 = \frac{8j\,v_1 \quad 25v_1 - 5000j}{200j} + \frac{v_1 - 70.71 + 70.71i}{5j}$$

$$0 = \frac{-40v_1 - 125jv_1 - 25000 + 200jv_1 + 14142.14 - 14142.14j}{-1000}$$

$$0 = -40v_1 - 125jv_1 - 25000 + 200jv_1 - 14142.14 + 14142.14j$$

$$-(40 + 75j)v_1 = 10857.86 + 14142.14i$$

$$v_1 = \frac{10857.86 + 14142.14i}{-40 + 75j}$$

$$= 86.69 - 191.007j$$

$$= 209.76\angle -65.59\ V$$

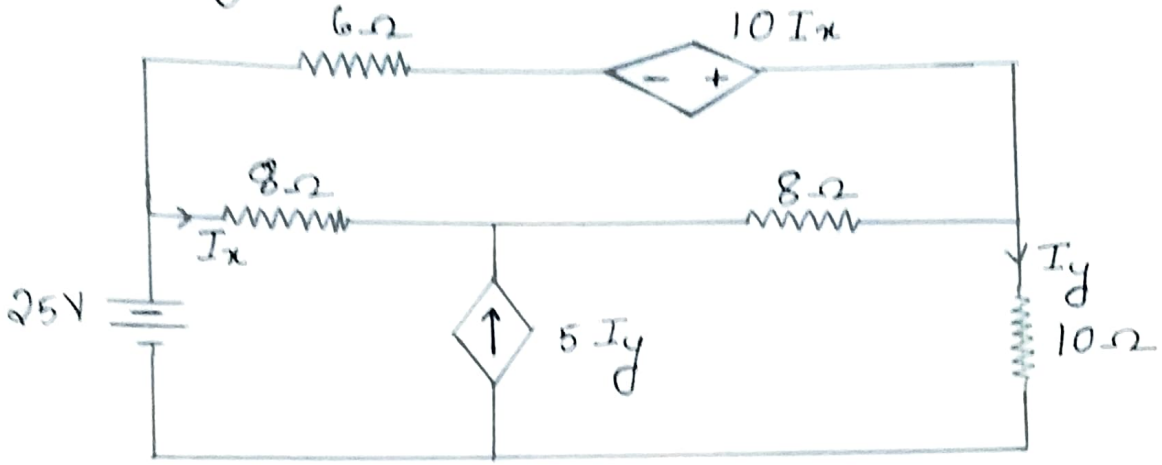
Current through 25Ω Resistor is,

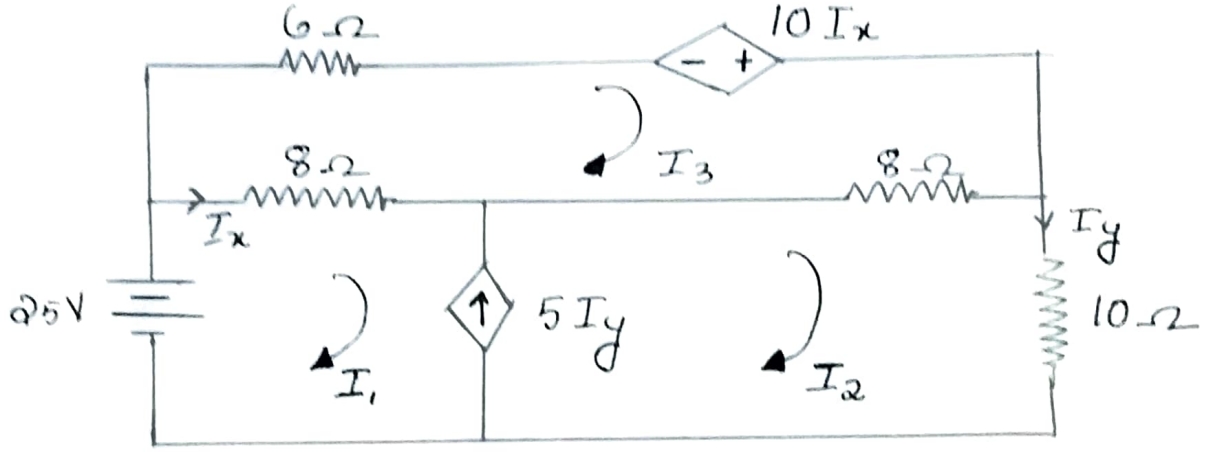
$$I = \frac{v}{R} = \frac{86.69 - 191.007j}{25}$$

$$= 3.468 - 7.64i$$

$$= 8.39\angle -65.59\ A$$

Evaluate voltage across 10Ω resistor in the following Network





From Supermesh 1 & 2,

$$I_2 - I_1 - 5I_y$$

$$I_2 - I_1 = 5I_2$$

$$I_2 - 5I_2 - I_1 = 0$$

$$-4I_2 - I_1 = 0$$

$$I_1 + 4I_2 = 0 \quad \text{—} \quad (1)$$

Applying KVL to Outerpath of Supermesh,

$$8(I_1 - I_3) + 8(I_2 - I_3) + 10I_2 = 25$$

$$8I_1 - 8I_3 + 8I_2 - 8I_3 + 10I_2 = 25$$

$$8I_1 + 18I_2 - 16I_3 = 25 \quad \text{— (2)}$$

Applying KVL to mesh 3,

$$6I_3 + 8(I_3 - I_2) + 8(I_3 - I_1) = 10I_x$$

$$6I_3 + 8I_3 - 8I_2 + 8I_3 - 8I_1 = 10(I_1 - I_3)$$

$$6I_3 + 8I_3 - 8I_2 + 8I_3 - 8I_1 = 10I_1 - 10I_3$$

$$-18I_1 - 8I_2 + 32I_3 = 0 \quad \text{— (3)}$$

On solving eq (1), (2) & (3) we get,

$$I_1 = \frac{-50}{9} = -5.556$$

$$I_2 = \frac{25}{18} = 1.389$$

$$I_3 = \frac{-25}{9} = -2.778$$

Voltage across 10Ω resistor is,

$$V = IR$$

$$= 1.389 \times 10$$

$$= 13.89\,V$$

ADL332	BIG DATA ANALYTICS LAB	CATEGORY	L	T	P	CREDIT	YEAR OF INTRODUCTION
		PCC	0	0	3	3	2019

Preamble: The purpose of the course is to offer the students a hands-on experience on Big Data concepts using open source technologies such as Hadoop, Map Reduce, Hive, Pig and Apache Spark. The hands-on experience with R Programming language helps in statistical analysis and equip the students with data driven solutions for the next-generation data management. As data continues to grow it is known that via big data solutions, organizations generate insights and make well-informed decisions, discover trends, and improve productivity and the learner will be able to work on and solve data processing problems.

Prerequisite: Fundamental knowledge in Java programming, Statistics and Python and Big Data Analytics

Course Outcomes: At the end of the course, the student should be able to :

CO1	Illustrate the setting up of and Installing Hadoop in one of the three operating modes.**(Cognitive knowledge: Understand)**
CO2	Implement the file management tasks in Hadoop and explore the shell commands **(Cognitive knowledge: Apply)**
CO3	Implement different tasks using Hadoop Map Reduce programming model.**(Cognitive knowledge: Apply)**
CO4	Implement Pig Scripting operations and Spark Application functionalities.**(Cognitive knowledge: Apply)**
CO5	Implement data extraction from files and other sources and perform various data manipulation tasks on them using R Program.**(Cognitive knowledge: Apply)**
CO6	Illustrate the knowledge of R gained to data analytics for real life applications. **(Cognitive knowledge: Understand)**

Internal Examination Pattern: The marks will be distributed as Algorithm30 marks, Program 20 marks, Output 20 marks and Viva 30 marks. Total 100 marks which will be converted out of 15 while calculating Internal Evaluation marks.

End Semester Examination Pattern: The percentage of marks will be distributed as Algorithm 30 marks, Program 20 marks, Output 20 marks and Viva30 marks. Total 75 marks.

Operating System to Use in Lab : Linux
Compiler/Software to Use in Lab :
Programming Language to Use in Lab : Java, R, Python

Fair Lab Record:
All Students attending the Big Data Lab should have a Fair Record. The fair record should be produced in the University Lab Examination. Every experiment conducted in the lab should be noted in the fair record. For every experiment in the fair record, the right-hand page should contain Experiment Heading, Experiment Number, Date of experiment, Aim of the Experiment and the operations performed on them, Details of experiment including algorithm and result of Experiment. The left-hand page should contain a print out of the code used for experiment and sample output obtained for a set of input.

SYLLABUS

BIG DATA ANALYTICS LAB

* Mandatory

1. Perform setting up and Installing Hadoop in any of the three operating modes: Standalone, Pseudo distributed, Fully distributed.*
2. Explore the various shell commands in Hadoop.
3. Implement the following file management tasks in Hadoop:
    - Adding Files and Directories
    - Retrieving Files
    - Deleting Files
4. Implement a word count program using Map Reduce.
5. Write a R program to find the factorial and check for palindromes.*
6. Write a R program to solve linear regression and make predictions.*
7. Write a R program to solve logistic regression.*
8. Implement statistical operations using R.*
9. Implement a program to find variance, covariance and correlation between different types of attributes.*
10. Implement SVM/Decision tree Classifier.*
11. Implement clustering algorithm.*

12. To explore Hive with its basic commands
13. Write Pig Latin scripts to sort, group, join, project, and filter your data.
14. Install, Deploy and configure Apache Spark.

BIG DATA PROCESSING LAB - PRACTICE QUESTIONS

1. Write a MapReduce Program to retrieve data from documents.
2. Write word count program that only count the words starting with 'a'
3. Write a word count program that only counts the words whose length is longer than 10.
4. Using the structure of the Word Count program, write a Hadoop program that calculates the average word length of all words that start with each character.
5. Implement matrix multiplication with Hadoop Map Reduce
6. Write a Map Reduce program for removing stop words from the given text files.
7. Write a MapReduce Program to count the number of lines in a document.
8. Write Pig Latin script to count the number of occurrences of each word in an input text file.
9. Write a program to simulate Singular Value Decomposition
10. Write a program to simulate PCA.
11. Write a single Spark application that:
    a. Transposes the original Amazon food dataset, obtaining a Pair RDD of the type: user-id – list of the product-ids reviewed by user-id
    b. Counts the frequencies of all the pairs of products reviewed together;
    c. Writes on the output folder all the pairs of products that appear more than once and their frequencies.
    d. The pairs of products must be sorted by frequency..
12. Write a program to implement a stop word elimination problem. Input: A large textual file containing one sentence per line. A small file containing a set of Stop Words (One Stop Word per line) Output: A textual file containing the same sentences of the large input file without the words appearing in the small file
13. Implement matrix multiplication with Map Reduce.
14. Implement basic Pig Latin Scripts based on different scenarios.
15. Implement Frequent Item set algorithm

16. Implement Clustering algorithm
17. Implement Page Rank algorithm
18. Implement Bloom Filter
19. Write a R program to create a sequence of numbers from 20 to 50 and find the mean of numbers from 20 to 60 and sum of numbers from 51 to 91.
20. Write a R program to create a vector which contains 10 random integer values between -50 and +50.
21. Write a R program to find the maximum and the minimum value of a given vector.
22. Write a R program to get the unique elements of a given string and unique numbers of vectors.
23. Write a R program to create a list of random numbers in normal distribution and count occurrences of each value.
24. Write a R program to read the .csv file and display the content.
25. Write a R program to create an array, passing in a vector of values and a vector of dimensions. Also provide names for each dimension.
26. Write a R program to create a simple bar plot of five subjects' marks.
27. Write a R program to compute the sum, mean and product of a given vector element.
28. Write a R program to create a Data Frames which contain details of 5 employees and display the details.

VISWAJYOTHI COLLEGE OF ENGINEERING &TECHNOLOGY

ADL 332: BIG DATA ANALYTICS LAB

CYCLE I

1. Perform setting up and Installing Hadoop in any of the three operating modes:

   Standalone, Pseudo distributed, fully distributed.

2. Explore the various shell commands in Hadoop.

3. Implement the following file management tasks in Hadoop:

   - Adding Files and Directories
   - Retrieving Files
   - Deleting Files

4. Write a R program to find the factorial and check for palindromes.

5. Write a program to check whether a number is prime or not.

6. Write a program to print the given pattern.

7. Write a program to implement simple calculator.

8. Write a program to print Fibonacci series.

9. Write a program to print LCM.

10. Write a program to print GCD.

11. Write a program to print sum of n natural numbers.

12. Write a program to count occurrence of n random numbers.

CYCLE II

1. Write a program to create simple bar plot.
2. Write a program to compute sum, mean, median and product of given vector.
3. Write a program to create data frame and display the details.
4. Write a R program to solve linear regression and make predictions.
5. Write a R program to solve logistic regression.
6. Write a R program to Implement statistical operations.
7. Write a R program to Implement a program to find variance, covariance and correlation between different types of attributes.
8. Write a R program to Implement SVM/Decision tree Classifier.
9. Write a R program to Implement clustering algorithm

VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

ADL 332 BIG DATA ANALYTICS LAB

S6 AD - EXAM TIME TABLE

DATE	ROLL NO	TIME	VENUE
20 – 06 – 2023	GROUP 1- GROUP 6	1.30 PM – 4.15 PM	DATA SCIENCE LAB
22– 06 – 2023	GROUP 7- GROUP 10	8.55 AM – 11.45 AM	DATA SCIENCE LAB

STAFF IN CHARGE

Ms. GEETHU GOPAN

HEAD OF THE DEPARTMENT

Dr. MELVIN C JOSE

VISWAJYOTHI COLLEGE OF ENGINEERING &TECHNOLOGY

ADL 332: BIG DATA ANALYTICS LAB

MODEL LAB EXAM 20/6/23 AN

Time:3 Hrs Max Mark:100

1. **Write a R program to find the factorial and check for palindromes.**
2. **Write a R program to solve linear regression and make predictions.**

1. **Write a R program to find the factorial and check for palindromes.**
2. **Write a R program to implement statistical analysis.**

1. **Write a program to check whether a number is prime or not.**
2. **Write a R program to solve logistic regression.**

1. **Write a program to implement simple calculator.**
2. **Write a R program to Implement SVM**

1. **Write a program to print Fibonacci series.**
2. **Write a R program to Implement a program to find variance, covariance and correlation between different types of attributes.**

1. **Write a program to print LCM.**
2. **Write a R program to Implement Decision tree Classifier.**

COURSE DIARY

LABORATORY / PRACTICAL / WORKSHOP

Name of Staff member	: Guthu Gopan & Sivadas T Nair
Mobile No.	: 8089119588
Designation	: Asst. Professor
Department	: AD
Subject / Course	: BIG DATA Semester : S6 Year : 2023
	ADL 332 Analytics Lab

VISWAJYOTHI
COLLEGE OF ENGINEERING & TECHNOLOGY
Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha
Ernakulam Dist., Kerala - 686 670
Tel: 0485 2262211 / 44
Email: vjcet@vjcet.org
www.vjcet.ac.in

VISWAJYOTHI
COLLEGE OF ENGINEERING & TECHNOLOGY

Vazhakulam P.O., Muvattupuzha. Ernakulam Dist. Kerala, India - 686670
Phone: 0485 - 2262211, 2262255, 2262977, 2262244, 2262311, 94963 35522
Email: vjcet@vjcet.org vjcvklm@gmail.com Website: www.vjcet.ac.in

Vision **"Moulding Professionals par excellence with integrity, fairness and human values"**

Mission

- We commit to develop the institution into a Centre of Excellence of International Standards.
- We guide and mould our students in the attainment of intellectual and professional competence for successfully coping with the rapid and challenging advancements in technology and the ever changing world of business, industry and services.
- We help and support our students in their personal growth shaping them into mature and responsible individuals.
- We strive to cultivate a sense of social and civic responsibility in our students, empowering them to serve humanity.
- We promise to ensure a free environment where quest for the truth is encouraged.

COURSE DIARY

LABORATORY / PRACTICAL / WORKSHOP

Year : 20..22.... - 20..23.....

SEM : ODD / EVEN

ADL 332 - BIG DATA ANALYTICS ..... **LABORATORY/WORKSHOP**

Subject	:	BIG DATA ANALYTICS
Class & Branch	:	S6 AD
Faculty	:	Geethu Gopan & Sivadas T Nair
Date of Commencement	:	6/2/2023

Class : S6 AD

Subject with Code No : ADL 332 BIG DATA ANALYTICS LAB

Attendance

Class No.	NAME	7/2	28/2	7/3	14/3	4/4	13/4	6/6	19/6	20/6
	Lab Period*	5 6 7	5 6 7	5 6 7	5 6 7	5 6 7	1 2 3	5 6 7	5 6 7	5 6 7
1	GROUP - 1									
2	ARDHRA ANN	x	x	x	x	x	x	x	x	x
3	REETHU GEORGE	x	x	x	x	a	x	x	x	x
4	SANDRA THERESA	x	x		x	x	x	a	x	x
5	JEEVIKA SOJAN	x	x	x	x	x	x	x	x	x
6	GROUP - 2									
7	ATHUL S	x	x	x	x	x	x	x	x	x
8	ROHAN RAJ	x	x	a	x	x	x	x	x	x
9	REX JAISON	x	x	x	x	x	x	a	x	x
10	NIHAL THOMAS	x	x	x	x	x	x	a	x	x
11	GROUP - 3									
12	HANSIF	x	x	x	x	a	x	x	a	x
13	ABISHEK RAVI	x	x	x	x	x	x	x	x	x
14	AMEER P IBRAHIM	x	x	D/L	D/L	x	x	x	x	x
15	JOSEPH VINCENT	x	x	x	x	x	x	x	x	x
16	GROUP - 4									
17	NIVYA A	x	x	x	x	x	x	x	x	x
18	AKSA ANN	x	x	x	x	x	x	a	x	x
19	SARAFIN BABU	x	x	x	x	x	x	x	x	x
20	GREESHMA REJI	x	x	x	x	x	x	x	x	x
21	GROUP - 5									
22	ALBY BENNY	x	x	x	x	x	x	x	x	x
23	ALWIN P JOSE	x	x	x	x	x	x	x	x	x
24	ATHUL ASOK	x	x	x	x	x	x	a	x	a
25	NAVANEETH V NAIR	x	x	x	D/L	x	x	x	x	x
26										

Daily Experiment Performance Evaluation

	Name of Experiment: Introduction of hadoop & R					Name of Experiment: Install Hadoop, Shell pgm, Basic					Name of Experiment: Install R, Basic R Program					Name of Experiment: Basic R Program				
	Lab Per (10)	Algo Pgm (10)	O/P 10	Viva (15)	T (40)	LP 10	Al Pgm 10	O/P 10	Viva (15)	T 40	LP (10)	A+P (10)	O/P (10)	Viva (15)	T (40)	LP (10)	A+P (10)	O/P (10)	Viva (15)	T 40
Group 1																				
Ardra	10	10	10	15	45	10	10	10	18	48	10	10	10	18	45	10	10	10	15	45
Reethu	10	10	10	15	45	10	10	10	18	48	10	10	10	18	45	10	10	10	15	45
Sandra	10	10	10	15	45	10	10	10	18	48	10	10	10	18	48	10	10	10	12	42
Jeevika	10	10	10	15	45	10	10	10	12	42	10	10	10	18	45	10	10	10	15	45
G-2																				
Athul S	10	10	10	12	42	10	10	10	15	45	10	10	10	12	42	10	10	10	12	42
Rohan Raj	10	10	10	18	48	10	10	10	10	40	[illegible]	[illegible]	[illegible]	[illegible]		10	10	10	15	45
Rex Jaison	10	10	10	18	48	10	10	10	18	48	10	10	10	15	95	10	10	10	18	48
Nihal	10	10	10	9	39	10	10	10	10	40	10	10	10	10	40	10	10	10	9	39
G-3																				
Hansif	10	10	10	18	48	10	10	10	12	42	10	10	10	10	90	10	10	10	10	90
Abhishek	10	10	10	10	40	10	10	10	12	42	10	10	10	10	90	10	10	10	10	90
Ameer	10	10	10	10	40	10	10	10	10	40	10	10	10	10	90	10	10	10	10	90
Joseph	10	10	10	10	40	10	10	10	10	40	10	10	10	10	40	10	10	10	10	40
G-4																				
Nivya	10	10	10	15	45	10	10	10	15	45	10	10	10	15	45	10	10	10	12	42
Aksa	10	10	10	12	42	10	10	10	15	45	10	10	10	15	45	10	10	10	12	42
Sarafin	10	10	10	12	42	10	10	10	15	45	10	10	10	15	45	10	10	10	12	42
Greeshma	10	10	10	15	45	10	10	10	15	45	10	10	10	15	45	10	10	10	15	45
G-5																				
Alby	10	10	10	15	15	10	10	10	10	15	10	10	10	15	95	10	10	10	15	95
Alwin	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	90
Athul	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	10	10	90
Navaneeth	10	10	10	10	40	10	10	10	10	40	10	10	10	10	90	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Class : S6

Daily Experiment Performance Evaluation

Class No.	Name of Experiment	Name of Experiment	Name of Experiment	Name of Experiment
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				

Class No.	
1	GRO
2	ARD
3	REE
4	SAN
5	JEE
6	GRO
7	ATH
8	ROL
9	REX
10	NIH
11	GRO
12	HAI
13	ABI-
14	AME
15	JOSI
16	GRO
17	NIVY
18	AKS.
19	SARI
20	GREE
21	GRO
22	ALBI
23	ALWI
24	ATHU
25	NAVA
26	
27	

Daily Experiment Performance Evaluation

Name of Experiment	Name of Experiment

Consolidated Evaluation

Average of Sub Totals (30)	Final Test/Quiz /Expt. (15)	VIVA (15)	Attendance Marks (15)	Grand Total (75)	ATTENDENCE PERCENTAGE
30	15	15	15	75	100
30	15	14	15	74	89
28	11	12	14	65	89
30	15	14	15	74	100
30	15	15	15	75	100
27	14	13	14	68	89
28	14	13	14	69	89
25	8	13	14	60	89
28	14	14	12	68	80
30	14	14	15	73	100
28	13	13	15	69	100
27	13	12	15	67	100
30	15	15	15	75	100
80	10	11	14	65	89
28	14	13	15	70	100
29	15	14	15	73	100
30	15	15	15	75	100
27	12	12	15	67	100
27	12	12	14	65	80
28	14	13	15	70	100

1. Write a program to print LCM.
2. Write a R program to Implement Decision tree Classifier.

VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY
VAZHAKULAM

Series Test : I/II/III **Date:** 20/06/23

Subject with Code : BDA lab

Name of Candidate: Athul S **Roll No:** 18

Semester & Branch: S6 AD

Qn. No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total
Marks																98/100

Vision Statement

"Moulding professionals par excellence with integrity, fairness and human values"

7 LCM = x * a * b (a and b are the new numbers)

8. Stop

Result

Proceed.

o/p verified.

enter 1st no: 5

enter 2nd no: 10

10

Aim

To write an R Program to find LCM of 2 numbers.

Algorithm

1. Start
2. Read the two numbers
3. find the Smallest of both the numbers
4. Recursively call function to check if both the number are divisibly from the Smallest to 2 ~~and stop~~ 1
5. Store the divided in a Variable (x)
6. divide the two number by the common divider.
7. LCM = x * a * b (a and b are the new numbers)
8. Stop

Result

Proceed.

o/p verified

enter 1st no: 5

enter 2nd no: 10

10

DEPARTMENT OF INFORMATION TECHNOLOGY

S6 IT MINI PROJECT

Continous Internal Evaluation Marks

Roll No	Name	Group	Topic	Guide	Attendance (10)	Guide (15)	Project Report (10)	Evaluation By Committee (40)	Total (75)	
4	AINA SHIBU	Group 1	Automatic GPS Toll Collection System	Ms. Tiny Molly V	10	14	10	36.25	70.25	70
2	ADARSH E REJI				10	13	10	35.75	68.75	69
12	ANAND P SASIDHARAN				10	14	10	37	71	71
32	P B SRUTHY				10	14	10	37.25	71.25	71
11	ANANDHU SUNIL	Group 2	Time Table Management system	Ms. Salini Dev P V	10	14	10	37.25	71.25	71
17	ELDHO PETER REGI				8.7	14	10	37.25	69.95	70
19	JEEVAN BENNY				10	14	10	37	71	71
41	SIVAPRIYA V JAYAN				10	14	10	36.55	70.55	71
7	ALEENA BIJU	Group 3	Sports Event Management system	Ms. Salini Dev P V	10	14	10	36.55	70.55	71
15	ANU BABY				10	14	10	36.55	70.55	71
16	BASIL BAIJU				10	14	10	36.55	70.55	71
34	RILU TOJO				10	14	10	36.55	70.55	71
3	AGNAL ROY	Group 4	Hostel Management system	Ms. Shilpa Sugathan	9	14	10	35	68	68
24	JOSNA JOSEPH				10	14	10	35	69	69
29	MICHAEL RAJU				10	14	10	35	69	69
40	SHANO THOMAS				8	14	10	35	67	67
1	AAGUS BIJU	Group 5	SOS Application	Ms. Shilpa Sugathan	10	14	10	33.25	67.25	67
26	KARTHIK				10	14	10	32.25	66.25	66
31	OBEDH K JOBY				10	14	10	35.25	69.25	69
5	AKSHARA JOSHY	Group 6	Exam Seating Sytem	Ms.Josna Jose	10	14	10	35.625	69.625	70
8	ALEETA ROSE				10	14	10	35.625	69.625	70
21	JOANA ELSUM MANUEL				10	14	10	36	70	70
35	RIYA VINCENT				10	14	10	34.625	68.625	69
14	ANTONY CIJO	Group 7	Driving School Monitoring system	Ms.Anju Susan George	10	14	10	36.875	70.875	71
18	ERIC PAUL EDAKKATTIL				10	14	10	36.875	70.875	71
33	PIOUS RAJU				10	14	10	36.975	70.975	71
38	SARA THERESA SABU				10	14	10	37.8975	71.8975	72
6	ALAN SAJO PAUL	Group 8	Public Food Management system	Mr. Jimy George	10	14	8	25.125	57.125	57
9	ALEN NIBU				8.7	14	8	25.125	55.825	56
36	ROMAL JOSEPH				10	14	8	25.125	57.125	57
27	KRISHNANAND S				10	14	8	25.125	57.125	57
22	JOHN MATHEW	Group 9	Water pipe leakage Management system	Ms. Anitta K Mathew	10	14	8	30.5	62.5	66
28	LIJO JOSEPH				10	14	8	28.5	60.5	60
39	SAVIO JOSEPH BABU				10	14	8	28.5	60.5	60
10	AMAN. H	Group 10	Real Estate Management System	Mr. Jimy George	10	14	8	28.125	60.125	60
30	NIKHIL JOY				10	14	8	30.125	62.125	62
37	RON THOMAS				10	14	8	27.875	59.875	60
13	ANJALY ABRAHAM	Group 11	AI-powered Outfit Suggestion	Mr Nidhin R	10	12	10	24.875	56.875	57
20	JESWIN ANTONY. M				10	15	10	38.25	73.25	73
23	JOSE JOSEPH				10	12	10	26.875	58.875	59
25	JUDITH BIJU ABRAHAM				10	15	10	38.475	73.475	73

Dr. Anju Susan George(HOD)

Ms.Shilpa Sugathan

Ms. Salini Dev P V

DEPARTMENT OF INFORMATION TECHNOLOGY
S6 IT MINI PROJECT
Presentation I- Batch I

Roll No	Name	Group	Topic	Guide	Presentation (15)	Question Answer (10)	Demo (15)	Total (40)
4	AINA SHIBU	Group 1	Automatic GPS Toll Collection System	Ms. Tiny Molly V	14	10	14	38
2	ADARSH E REJI				14	10	14	38
12	ANAND P SASIDHARAN				14	10	14	38
32	P B SRUTHY				14	10	14	38
11	ANANDHU SUNIL	Group 2	Time Table Management system	Ms. Salini Dev P V	14	10	14	38
17	ELDHO PETER REGI				14	10	14	38
19	JEEVAN BENNY				14	10	14	38
41	SIVAPRIYA V JAYAN				14	10	14	38
7	ALEENA BIJU	Group 3	Sports Event Management system	Ms. Salini Dev P V	14	10	14	38
15	ANU BABY				14	10	14	38
16	BASIL BAIJU				14	10	14	38
34	RILU TOJO				14	10	14	38
3	AGNAL ROY	Group 4	Hostel Management system	Ms. Shilpa Sugathan	13	9	13	35
24	JOSNA JOSEPH				13	9	13	35
29	MICHAEL RAJU				13	9	13	35
40	SHANO THOMAS				13	9	13	35
1	AAGUS BIJU	Group 5	Calendo App	Ms. Shilpa Sugathan	12	9	12	33
26	KARTHIK				12	9	12	33
31	OBEDH K JOBY				12	9	12	33

Ms. Salini Dev P V

DEPARTMENT OF INFORMATION TECHNOLOGY
S6 IT MINI PROJECT
Presentation I- Batch I

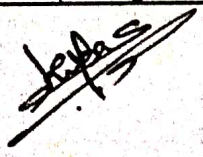
Roll No	Name	Group	Topic	Guide	Presentation (15)	Question Answer (10)	Demo (15)	Total (40)
4	AINA SHIBU	Group 1	Automatic GPS Toll Collection System	Ms. Tiny Molly V	14	10	14	38
2	ADARSH E REJI				13	9	12	34
12	ANAND P SASIDHARAN				13	10	14	37
32	P B SRUTHY				14	10	14	38
11	ANANDHU SUNIL	Group 2	Time Table Management system	Ms. Salini Dev P V	14	9	14	37
17	ELDHO PETER REGI				14	10	13	37
19	JEEVAN BENNY				13	9	14	36
41	SIVAPRIYA V JAYAN				14	9	14	37
7	ALEENA BIJU	Group 3	Sports Event Management system	Ms. Salini Dev P V	14	10	14	38
15	ANU BABY				14	10	14	38
16	BASIL BAIJU				14	10	14	38
34	RILU TOJO				14	10	14	38
3	AGNAL ROY	Group 4	Hostel Management system	Ms. Shilpa Sugathan	13	9	13	35
24	JOSNA JOSEPH				13	9	13	35
29	MICHAEL RAJU				13	9	13	35
40	SHANO THOMAS				13	9	13	35
1	AAGUS BIJU	Group 5	Calendo App	Ms. Shilpa Sugathan	13	9	13	35
26	KARTHIK				12	9	12	33
31	OBEDH K JOBY				13	9	13	35

Ms. Shilpa Sugathan

DEPARTMENT OF INFORMATION TECHNOLOGY
S6 IT MINI PROJECT
Presentation II- Batch I

Roll No	Name	Group	Topic	Guide	Presentation (15)	Question Answer (10)	Demo (15)	Total (40)
4	AINA SHIBU	Group 1	Automatic GPS Toll Collection System	Ms. Tiny Molly V	14	10	14	38
2	ADARSH E REJI				13	9	13	35
12	ANAND P SASIDHARAN				13	10	14	37
32	P B SRUTHY				14	10	14	38
11	ANANDHU SUNIL	Group 2	Time Table Management system	Ms. Salini Dev P V	14	10	14	38
17	ELDHO PETER REGI				14	10	14	38
19	JEEVAN BENNY				14	10	14	38
41	SIVAPRIYA V JAYAN				14	10	14	38
7	ALEENA BIJU	Group 3	Sports Event Management system	Ms. Salini Dev P V	14	10	14	38
15	ANU BABY				14	10	14	38
16	BASIL BAIJU				14	10	14	38
34	RILU TOJO				14	10	14	38
3	AGNAL ROY	Group 4	Hostel Management system	Ms. Shilpa Sugathan	13	9	13	35
24	JOSNA JOSEPH				13	9	13	35
29	MICHAEL RAJU				13	9	13	35
40	SHANO THOMAS				13	9	13	35
1	AAGUS BIJU	Group 5	Calendo App	Ms. Shilpa Sugathan	13	10	13	36
26	KARTHIK				12	9	12	33
31	OBEDH K JOBY				13	10	13	36

Ms. Shilpa Sugathan



DEPARTMENT OF INFORMATION TECHNOLOGY
S6 IT MINI PROJECT
Presentation 2- Batch I

Roll No	Name	Group	Topic	Guide	Presentation (15)	Question Answer (10)	Demo (15)	Total (40)
4	AINA SHIBU	Group 1	Automatic GPS Toll Collection System	Ms. Tiny Molly V	13	9	14	36
2	ADARSH E REJI				13	9	14	36
12	ANAND P SASIDHARAN				13	9	14	36
32	P B SRUTHY				13	9	14	36
11	ANANDHU SUNIL	Group 2	Time Table Management system	Ms. Salini Dev P V	13	9	14	36
17	ELDHO PETER REGI				13	9	14	36
19	JEEVAN BENNY				13	9	14	36
41	SIVAPRIYA V JAYAN				13	9	14	36
7	ALEENA BIJU	Group 3	Sports Event Management system	Ms. Salini Dev P V	14	9	14	37
15	ANU BABY				14	9	14	37
16	BASIL BAIJU				14	9	14	37
34	RILU TOJO				14	9	14	37
3	AGNAL ROY	Group 4	Hostel Management system	Ms. Shilpa Sugathan	13	9	13	35
24	JOSNA JOSEPH				13	9	13	35
29	MICHAEL RAJU				13	9	13	35
40	SHANO THOMAS				13	9	13	35
1	AAGUS BIJU	Group 5	Calendo App	Ms. Shilpa Sugathan	10	7	12	29
26	KARTHIK				10	7	12	29
31	OBEDH K JOBY				10	7	12	29

Ms. Salini Dev P V

DEPARTMENT OF INFORMATION TECHNOLOGY

S6 IT MINI PROJECT

Presentation I- Batch II

Roll No	Name	Group	Topic	Guide	Presentation (15)	Question Answer (10)	Demo (15)	Total (40)
5	AKSHARA JOSHY	Group 6	Exam Seating Sytem	Ms.Josna Jose	14	9	12	35
8	ALEETA ROSE				14	9	12	35
21	JOANA ELSUM MANUEL				14	9	13	36
35	RIYA VINCENT				14	8	12	34
14	ANTONY CIJO	Group 7	Driving School Monitoring system	Ms.Anju Susan George	12	8	12	32
18	ERIC PAUL EDAKKATTIL				13	8	12	33
33	PIOUS RAJU				13	8	12	33
38	SARA THERESA SABU				14	8	12	34
6	ALAN SAJO PAUL	Group 8	Public Food Management system	Mr. Jimy George	10	6	6	22
9	ALEN NIBU				10	6	6	22
36	ROMAL JOSEPH				10	6	6	22
27	KRISHNANAND S				10	6	6	22
22	JOHN MATHEW	Group 9	Water pipe leakage Management system	Ms. Anitta K Mathew	10	8	10	28
28	LIJO JOSEPH				10	6	10	26
39	SAVIO JOSEPH BABU				10	6	10	26
10	AMAN. H	Group 10	Real Estate Management System	Mr. Jimy George	11	5	9	25
30	NIKHIL JOY				11	7	9	27
37	RON THOMAS				11	6	9	26
13	ANJALY ABRAHAM	Group 11	AI-powered Outfit Suggestion	Mr Nidhin R	10	5	8	23
20	JESWIN ANTONY. M				13	9	12	34
23	JOSE JOSEPH				10	5	10	25
25	JUDITH BIJU ABRAHAM				14	9	12	35

Dr. Anju Susan George

CHOD-IT

DEPARTMENT OF INFORMATION TECHNOLOGY

S6 IT MINI PROJECT

Presentation I- Batch II

Roll N	Name	Group	Topic	Guide	Presentation	Question	Demo	Total (40)
5	AKSHARA JOSHY	Group 6	Exam Seating Sytem	Ms.Josna Jose	14	9	13	36
8	ALEETA ROSE				14	9	13	36
21	JOANA ELSUM MANUEL				14	9	13	36
35	RIYA VINCENT				14	8	13	35
14	ANTONY CIJO	Group 7	Driving School Monitoring system	Ms.Anju Susan George	12	9	14	35
18	ERIC PAUL EDAKKATTIL				13	9	14	36
33	PIOUS RAJU				13	9	14	36
38	SARA THERESA SABU				14	9	14	37
6	ALAN SAJO PAUL	Group 8	Public Food Management system	Mr. Jimy George	10	8	9	27
9	ALEN NIBU				10	8	9	27
36	ROMAL JOSEPH				10	8	9	27
27	KRISHNANAND S				10	8	9	27
22	JOHN MATHEW	Group 9	Water pipe leakage Management system	Ms. Anitta K Mathew	10	9	13	32
28	LIJO JOSEPH				10	8	12	30
39	SAVIO JOSEPH BABU				10	8	12	30
10	AMAN. H	Group 10	Real Estate Management System	Mr. Jimy George	11	9	10	30
30	NIKHIL JOY				11	8	13	32
37	RON THOMAS				11	8	10	29
13	ANJALY ABRAHAM	Group 11	AI-powered Outfit Suggestion	Mr Nidhin R	10	6	10	26
20	JESWIN ANTONY. M				13	10	13	36
23	JOSE JOSEPH				10	7	11	28.
25	JUDITH BIJU ABRAHAM				14	10	14	38

Shilpa Sugathan

DEPARTMENT OF INFORMATION TECHNOLOGY

S6 IT MINI PROJECT

Presentation II- Batch II

Roll No	Name	Group	Topic	Guide	Presentation	Question	Demo	Total (40)
5	AKSHARA JOSHY	Group 6	Exam Seating Sytem	Ms.Josna Jose	14	9	13	36
8	ALEETA ROSE				14	9	13	36
21	JOANA ELSUM MANUEL				14	9	13	36
35	RIYA VINCENT				14	8	13	35
14	ANTONY CIJO	Group 7	Driving School Monitoring system	Ms.Anju Susan George	14	9	14	37
18	ERIC PAUL EDAKKATTIL				14	9	14	37
33	PIOUS RAJU				14	9	14	37
38	SARA THERESA SABU				14	9	14	37
6	ALAN SAJO PAUL	Group 8	Public Food Management system	Mr. Jimy George	10	7	10	27
9	ALEN NIBU				10	7	10	27
36	ROMAL JOSEPH				10	7	10	27
27	KRISHNANAND S				10	7	10	27
22	JOHN MATHEW	Group 9	Water pipe leakage Management system	Ms. Anitta K Mathew	10	9	13	32
28	LIJO JOSEPH				10	7	12	29
39	SAVIO JOSEPH BABU				10	7	12	29
10	AMAN. H	Group 10	Real Estate Management System	Mr. Jimy George	10	6	13	29
30	NIKHIL JOY				12	8	13	33
37	RON THOMAS				11	7	12	30
13	ANJALY ABRAHAM	Group 11	AI-powered Outfit Suggestion	Mr Nidhin R	10	5	8	23
20	JESWIN ANTONY. M				14	9	14	37
23	JOSE JOSEPH				10	5	11	26
25	JUDITH BIJU ABRAHAM				14	9	14	37

Shilpa Sugathan

DEPARTMENT OF INFORMATION TECHNOLOGY

S6 IT MINI PROJECT

Presentation II- Batch II

Roll N	Name	Group	Topic	Guide	Presentation	Question	Demo	Total (40)
5	AKSHARA JOSHY	Group 6	Exam Seating Sytem	Ms.Josna Jose	14	9	12	35
8	ALEETA ROSE				14	9	12	35
21	JOANA ELSUM MANUEL				14	9	13	36
35	RIYA VINCENT				14	8	12	34
14	ANTONY CIJO	Group 7	Driving School Monitoring system	Ms.Anju Susan George	13	8	12	33
18	ERIC PAUL EDAKKATTIL				13	8	12	33
33	PIOUS RAJU				13	8	12	33
38	SARA THERESA SABU				13	8	12	33
6	ALAN SAJO PAUL	Group 8	Public Food Management system	Mr. Jimy George	10	6	6	22
9	ALEN NIBU				10	6	6	22
36	ROMAL JOSEPH				10	6	6	22
27	KRISHNANAND S				10	6	6	22
22	JOHN MATHEW	Group 9	Water pipe leakage Management system	Ms. Anitta K Mathew	10	8	10	28
28	LIJO JOSEPH				10	5	10	25
39	SAVIO JOSEPH BABU				10	5	10	25
10	AMAN. H	Group 10	Real Estate Management System	Mr. Jimy George	10	5	9	24
30	NIKHIL JOY				12	8	9	29
37	RON THOMAS				11	6	9	26
13	ANJALY ABRAHAM	Group 11	AI-powered Outfit Suggestion	Mr Nidhin R	10	5	8	23
20	JESWIN ANTONY. M				14	9	12	35
23	JOSE JOSEPH				10	5	10	25
25	JUDITH BIJU ABRAHAM				14	9	12	35

Dr.Anju Susan George

(HOD-IT)

EXAM MANAGEMENT SYSTEM

A MINI PROJECT REPORT

by

AKSHARA JOSHY (VJC20IT005)
ALEETA ROSE (VJC20IT008)
JOANA ELUSM MANUEL(VJC20IT022)
RIYA VINCENT (VJC20IT036)

in partial fulfillment for the award of the degree

of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

DEPARTMENT OF INFORMATION TECHNOLOGY
VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, VAZHAKULAM

JUNE 2023

EXAM MANAGEMENT SYSTEM

MINI PROJECT REPORT

by

AKSHARA JOSHY(VJC20IT005)
ALEETA ROSE(VJC20IT008)
JOANA ELUSM MANUEL(VJC20IT022)
RIYA VINCENT(VJC20IT036)

in partial fulfillment for the award of the degree

of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

under the guidance

of

Mrs. Josna Jose

Assistant Professor, IT Dept.

DEPARTMENT OF F INFORMATION TECHNOLOGY
VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY, VAZHAKULAM

JUNE 2023

VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY

VAZHAKULAM, 686670

BONAFIDE CERTIFICATE

This is to certi that the Project Report entitled " **"EXAM MANAGEMENT SYSTEM"** is a bor de work of **AKSHARA JOSHY (VJC20IT005) , ALEETA ROSE (VJC20IT008) JOANA ELSUM MANUEL (VJC20IT022)** and **RIYA VINCENT (VJC20IT036)** partial fulfillment for the award of the Degree of Bachelor of Technology in Inform n Technology & Engineering from APJ Abdul Kalam Technological University, Thiruva thapuram, Kerala during the academic year 2023-2024

Place : Vazhakulam

Date : 27-06-2023

Mrs Josna Jose
Project Guide
Assistant Professor
Dept. of IT, VJCET

VISWAJYOTHI COLLEGE OF ENGG. & TECHNOLOGY * MUVATTUPUZHA KERALA * VAZHAKULAM

Mrs Shilpa Sugathan
Project Coordinator
Assistant Professor
Dept. of IT, VJCET

27/6/2023

Dr. Anju Susan George
Assoc. Prof. and HOD
Dept. of IT, VJCET

HEAD INFORMATION TECHNOLOGY DEPT. VISWAJYOTHI COLLEGE OF ENGG. & TECHN. VAZHAKULAM P.O., MUVATTUPUZHA

VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY, VAZHAKULAM

DEPARTMENT OF CIVIL ENGINEERING

SEMINAR TOPICS OF STUDENTS - S7 CEB(Batch-2019-2023)

SL No.	Name of Student	Name of Guide	SEMINAR TOPIC
1	Akhilamol Sibi	Mr. Lins Paul Kuriakose	White Topping:Concrete Overlay On Bituminous Pavement
2	Jesmin Joseph	Dr. Anoop C K	Utilization of Crumb Rubber in Road Construction
3	Shone Shaju	Ms. Meril Jose	Circular runway in airport
4	Lekshmi Ajayakumar	Mrs.Finu John	Use of Aloevera as a coagulant in Turbidity Removal
5	Vandhana PV	Mrs.Finu John	Use of GFRP bars as Reinforcement in Concrete
6	Ankitha Manoj	Mrs.Finu John	Chilled Beam
7	Jaswanth Sadasivan	Mrs. Nayana Tom	Stabilization of Black cotton soil using terrazyme for pavement constructions
8	Varghese J Puthumanathotty	Ms. Roniya Joseph	Smart Ware Housing
9	Muhammed Jefin S	Mrs. Bijimol Joseph	Low Cost Housing
10	Ann Mariya Baby	Dr. Anoop C K	Recycling of Waste glass aggregate in concrete
11	Devadhath Mohan	Mr. Appu John	Building Integrated Photovoltaics
12	Vaishnav C S	Ms Meril Jose	Influence of Nano-TiO2 and Nanoclay in Concrete
13	Yedukrishna C V	Ms.Roniya Joseph	Study on determine the energy analysis of pre fabricated building using BIM
14	Dona Jose	Dr. Anoop C K	Concrete cloth:An innovative versatile construction material
15	Sarath Mohanan	Mrs.Neena.m.Joseph	Vacuum dewatering flooring technology
16	Anna Maria George	Mr.Appu John	Microsurfacing - An eco efficient tool for road safety and pavement maintenance
17	Thomas kurian	Ms Devina Vipinan	Construction of ATAL Tunnel using NATM
18	Ashly Asok	Mr. Appu John	Herbocrete
19	Muhammed P A	Mrs. Bijimol Joseph	An integrated approach for green and economical cement production
20	Dilna K C	Mrs.Amrutha	Reinforcing Mechanism of Graphene and Graphene oxide on cement based materials
21	Elizabath Shajan	Mrs. Finu John	Bioswales
22	Sara Mujeeb	Mrs.Bijimol Joseph	Coupled-TDA Geocell stress bridging system
23	Aravind Rajeev	Mrs. Devina Vipinan	Sound Absorbing Natural Fibre
24	Sandhra Sibi	Mr. Lins Paul Kuriakose	Crystalline Waterproofing
25	Anirudh Manoj	Mr.Appu John	Mycelium building materials
26	Stephen P Santhosh	Mrs. Tina Jose	Asphalt cocrete in railways
27	Ouseppachan Basil	Mrs. Meril Jose	Hyyperloop Technology
28	Angel Mary Joshy	Mrs. Meril Jose	Application of Laser Technology in Civil Engineering
29	Arif Ali	Mrs. Devina Vipinan	Micro Silica In Concrete
30	Varun Jacob	Mrs. Bijimol Joseph	Case study on Monitoring woks done in Bogibeel rail cum road bridge
31	Roshna Liss Mathew	Mrs. Finu John	Replacement of conventional sand with waste foumdary sand in the production of concrete
32	Rose Mariya Vincent	Soumiya rani Thomas	Pineapple leaf fibre Reinforced Concrete
33	Robin O J	Mrs. Devina Vipinan	Hydraulic traffic reduction system
34	Dani Biju	Mr. Lins Paul Kuriakose	Sky bus technology
35	Harisankar Madhu	Mrs Devina Vipinan	GIS Based Asset Mapping
36	Radhika Ratheesh	Mr. Appu John	Solar Pavement
37	Amal Reji	Mrs. Soumya Rani Thomas	Retractable Roofs

38	**Amal Koshy George**	Mrs. Meril Jose	Mitigation of Environmental Health risk on Military Air bases polluted with Hydrocarbons
39	**Doni Biju**	Mr. Lins Paul Kuriakose	Pervious Concrete
40	**B. Ganeshraj**	Mr. Lins Paul Kuriakose	Self healing asphalt

Group Tutor
Mr. Lins Paul Kuriakose

H.O.D CE
Dr. Shine George

Viswajyothi College of Engineering & Technology, Vazhakulam

Department of Civil Engineering

Seminar Evaluation Marks (S7 CE B)

Roll No.	Student Name	Seminar Coordinator(20)		Seminar Guide (20)		Presentation(40)				Seminar Guide report (20)	Total Rounded (100)	Attendance Percentage
		Seminar Diary (10 Marks)	Attendance (10)	Background Knowledge (10)	Relevance of the topic(10)	Clarity of presentation (10)	Interactions (10)	Overall participation(10)	Quality of slides (10)			
1	AKHILAMOL SIBI	10	10	8	8	8	9	9	10	18	90	100
2	AMAL KOSHY GEORGE	10	9	7	7	8	8	9	9	18	85	90
3	AMAL REJI	10	9	8	8	6	7	8	8	18	82	90
4	ANGEL MARY JOSHY	10	10	9	8	7	8	8	8	18	86	90
5	ANIRUDH MANOJ	10	9	9	9	8	9	9	9	18	90	90
6	ANKITHA MANOJ	10	10	8	8	9	9	8	8	18	88	100
7	ANN MARIYA BABY	10	10	9	9	7	7	8	7	18	85	100
8	ANNA MARIA GEORGE	10	10	9	9	9	9	9	9	18	92	100
9	ARAVIND RAJEEV	10	9	9	8	7	8	7	8	18	84	90
10	ARIF ALI	10	9	8	7	7	7	7	8	18	81	90
11	ASHLY ASOK	10	10	9	9	8	8	8	8	18	88	100
12	B.GANESHRAJ	10	10	9	8	8	8	8	8	18	87	100
13	DANI BIJU	10	10	8	9	8	7	8	8	18	86	100
14	DEVADHATH MOHAN	10	9	9	9	9	8	7	8	18	87	100
15	DILNA K C	10	10	9	9	9	9	9	9	18	92	100
16	DONA JOSE	10	10	8	8	8	9	8	9	18	88	100
17	DONI BIJU	10	10	8	8	8	8	8	8	18	86	100
18	ELIZABATH SHAJAN	10	10	9	9	9	9	9	9	18	92	100
19	HARISANKAR MADHU	10	9	8	8	8	7	8	8	18	84	90
20	JASWANTH SADASIVAN	10	10	8	8	8	7	9	8	18	86	90
21	JESMIN JOSEPH	10	10	8	8	7	7	8	7	18	83	100
22	LEKSHMI AJAYAKUMAR	10	10	10	9	9	8	8	7	18	89	100
23	MUHAMMED JEFIN S	10	9	7	7	7	7	8	7	18	80	100
24	MUHAMMED P.A	10	9	7	7	7	7	6	7	17	77	90
25	RADHIKA RATHEESH	10	10	9	9	9	8	9	8	18	90	100
26	ROBIN O J	10	9	7	7	7	7	8	9	16	80	90
27	ROSE MARIYIA VINCENT	10	10	7	8	7	7	7	7	18	81	100
28	ROSHNA LISS MATHEW	10	10	9	9	9	9	9	9	18	92	100
29	SANDHRA SIBI	10	9	9	9	9	9	9	9	18	91	100
30	SARA MUJEEB	10	10	9	8	8	9	9	9	18	90	90
31	SARATH MOHANAN	10	9	8	8	8	7	8	8	18	84	100
32	SHONE SHAJU	10	9	8	7	9	8	8	9	16	84	100
33	STEPHEN P SANTHOSH	10	9	9	9	8	9	9	9	18	90	100
34	THOMAS KURIAN	10	10	9	9	8	8	8	8	18	88	90
35	VAISHNAV C S	10	10	9	9	8	8	8	8	18	88	90
36	VANDHANA P V	10	9	9	10	9	9	9	9	18	92	100
37	VARGHESE J PUTHUMANATHOTTY	10	9	8	8	9	8	8	9	18	87	90
38	VARUN JACOB	10	9	9	9	9	9	9	9	18	91	100
39	YEDUKRISHNA C V	10	9	7	8	7	8	7	7	18	81	100
40	OUSAPPACHAN BASIL	10	9	8	8	7	7	7	7	18	81	100

Seminar Panel members

Mrs. Bijimol Joseph

Mr. Appu John

Mr. Lins Paul Kuriakose

H.O.D CE

Dr. Shine George

MITIGATION OF THE ENVIRONMENTAL HEALTH RISK ON MILITARY AIR BASES POLLUTED WITH HYDROCARBONS

A SEMINAR REPORT

Presented by

AMAL KOSHY GEORGE (VJC19CE006)

DEPARTMENT OF CIVIL ENGINEERING

Viswajyothi College of Engineering and Technology,
Vazhakulam, Kerala State, PIN 686670

(Affiliated to APJ Abdul Kalam Technological University, Thiruvananthapuram)

DECEMBER 2022

DEPARTMENT OF CIVIL ENGINEERING

VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY

VAZHAKULAM, KERALA STATE, PIN 686670

CERTIFICATE

This is to certify that the Seminar Report entitled

MITIGATION OF THE ENVIRONMENTAL HEALTH RISK ON MILITARY AIR BASES POLLUTED WITH HYDROCARBONS

was presented by

AMAL KOSHY GEORGE(VJC19CE006)

of the Seventh Semester B.Tech.(Civil Engineering) in partial fulfilment of the academic requirements for the award of the Degree of Bachelor of Technology in Civil Engineering in the year 2023 from Viswajyothi College of Engineering and Technology under the APJ Abdul Kalam Technological University, Thiruvananthapuram.

Ms. Meril Jose
Seminar Guide
CED, VJCET

VISWAJYOTHI COLLEGE OF ENGG. & TECHNOLOGY
MUVATTUPUZHA
KERALA
VAZHAKULAM

Dr. Shine George
Head of the Department
CED, VJCET

Place: Vazhakulam
Date: 05-12-2022

Viswajyothi College of Engineering & Technology, Vazhakulam
Department of Civil Engineering

Project Evaluation Marks (S8 CE A)

Team	Student Name	Interim evaluation by the Evaluation Committee(25)						Interim evaluation by the Evaluation Committee(25)				
		Novelty of idea, and Implementation scope (5 Marks)	Effectiveness of task distribution among team members (5 Marks)	Adherence to project schedule (5 Marks)	Interim Results (5 Marks)	Presentation Individual assessment (5 Marks)	TOTAL	Application of Engineering knowledge (10 Marks)	Involvement of individual members(5 Marks)	Results and inferences upon execution (5 Marks)	Documentation and presentation (5 Marks)	TOTAL
1	AISWARYA RAJU	5	4	5	4	5	23	10	3	5	5	23
	BEN VARGHESE PAUL	5	4	5	4	5	23	10	3	5	5	23
	GOURI PRIYA N NAIR	5	4	5	4	5	23	10	3	5	5	23
	LISHA C	5	4	5	4	5	23	10	3	5	5	23
2	ALAN SUNNY	5	5	5	5	5	25	10	5	5	4	24
	GOKUL VIKRAM	5	5	5	5	5	25	10	5	5	5	25
	GOKULNATH M	5	5	5	5	5	25	10	5	5	4	24
	HARIKRISHNAN T P	5	5	5	5	5	25	10	5	5	4	24
3	ALBERT SEBASTIAN	4	5	5	5	5	24	9	5	5	5	24
	DAWN MATHEW VINCE	4	5	5	5	5	24	9	5	5	5	24
	JIBIN JOHNSON	4	5	5	5	5	24	9	5	5	5	24
	SANJU GEORGE KURIEN	4	5	5	5	5	24	10	5	5	5	25
4	ANITHA BENNY	4	4	4	4	4	20	8	4	4	4	20
	ANITTA JOSEPH	4	4	4	4	4	20	8	4	4	4	20
	SHERIN LINA GEORGE	4	4	4	4	4	20	8	4	4	4	20
	SIVAPRIYA S NAIR	4	4	4	4	4	20	8	4	4	4	20
5	ARUN RAJAN	4	4	4	4	4	20	10	5	5	5	25
	ANJANA BIJU	4	4	4	4	4	20	10	5	5	5	25
	HANSA NOUSHAD	4	4	4	4	4	20	10	5	5	5	25
	JOBIN WILSON	4	4	4	4	4	20	10	5	5	5	25
6	DHEERAJ RAJU	4	5	5	5	5	24	10	5	4	5	24
	PARVATHI SURESH	4	5	5	5	5	24	10	5	4	5	24
	SETHULAKSMI P. H	4	5	5	5	5	24	10	5	4	5	24
	SONA MARIYAM SUNNY	4	5	5	5	5	24	10	5	4	5	24

Team	Student Name	Interim evaluation by the Evaluation Committee(25)						Interim evaluation by the Evaluation Committee(25)				
		Novelty of idea, and Implementation scope (5 Marks)	Effectiveness of task distribution among team members (5 Marks)	Adherence to project schedule (5 Marks)	Interim Results (5 Marks)	Presentation Individual assessment (5 Marks)	TOTAL	Application of Engineering knowledge (10 Marks)	Involvement of individual members(5 Marks)	Results and inferences upon execution (5 Marks)	Documentation and presentation (5 Marks)	TOTAL
7	E.GEEVARGHESE	5	5	4	4	5	23	9	4	5	5	23
	GEORGE M JOSE	5	5	4	4	5	23	9	4	5	5	23
	MUHAMMED ANSIL REZVI	5	5	4	4	5	23	9	4	5	5	23
	VYSAKH AS	5	5	4	4	5	23	9	4	5	5	23
8	FEBA BIJU	5	4	5	4	5	23	8	5	5	5	23
	JANET JAMES	5	4	5	4	5	23	8	5	5	5	23
	JOYEL RAJU KANNETH	5	4	5	4	5	23	8	5	5	5	23
	RIZWANA SALAM	5	4	5	4	5	23	8	5	5	5	23
9	HARIPRIYA BIJU	4	5	5	5	5	24	10	5	4	5	24
	JEEVAN JAMES	4	5	5	5	5	24	10	5	4	5	24
	NAVANEETHA S	4	5	5	5	5	24	10	5	4	5	24
	ROBIN THOMAS	4	5	5	5	5	24	10	5	4	5	24
10	ABDUL AZEEZ P Y	3	3	4	4	4	18	9	4	5	4	22
	ATHUL JOBY	3	3	4	4	4	18	9	4	5	4	22
	ELDHO BABU	3	3	4	4	4	18	9	4	5	4	22
	SANJU BIJU	3	3	4	4	4	18	9	4	5	4	22

Project Panel members

Dr. Shine George
Mrs. Sonu Johny
Mrs. Soumya Rani P Thomas

Viswajyothi College of Engineering & Technology, Vazhakulam
Department of Civil Engineering

Project Evaluation Marks (S8 CE A)

Team	Roll No	Student Name	Interim evaluation by the Evaluation Committee(25)	Interim evaluation by the Evaluation Committee(25)	Final Evaluation by the Evaluation Committee(40 Marks)	Project progress evaluation by guide(30 Marks)	Project Report (30)	Total Rounded (150)
1	2	AISWARYA RAJU	23	23	27	29	28	130
	10	BEN VARGHESE PAUL	23	23	29	28	28	131
	19	GOURI PRIYA N NAIR	23	23	30	28	28	132
	28	LISHA C	23	23	25	28	28	127
2	3	ALAN SUNNY	25	24	31	30	30	140
	17	GOKUL VIKRAM	25	25	29	29	29	137
	18	GOKULNATH M	25	24	29	29	29	136
	21	HARIKRISHNAN T P	25	24	29	29	29	136
3	4	ALBERT SEBASTIAN	24	24	31	27	29	135
	11	DAWN MATHEW VINCE	24	24	28	27	29	132
	25	JIBIN JOHNSON	24	24	30	28	29	135
	35	SANJU GEORGE KURIEN	24	25	31	30	30	140
4	5	ANITHA BENNY	20	20	27	24	26	117
	6	ANITTA JOSEPH	20	20	29	24	26	119
	37	SHERIN LINA GEORGE	20	20	32	26	26	124
	38	SIVAPRIYA S NAIR	20	20	29	26	26	121
5	7	ARUN RAJAN	20	25	34	30	30	139
	8	ANJANA BIJU	20	25	34	30	30	139
	20	HANSA NOUSHAD	20	25	36	30	30	141
	26	JOBIN WILSON	20	25	34	30	30	139
6	12	DHEERAJ RAJU	24	24	22	26	28	124
	31	PARVATHI SURESH	24	24	30	29	28	135
	36	SETHULAKSMI P. H	24	24	30	29	28	135
	39	SONA MARIYAM SUNNY	24	24	30	29	28	135

Team	Roll No	Student Name	Interim evaluation by the Evaluation Committee(25)	Interim evaluation by the Evaluation Committee(25)	Final Evaluation by the Evaluation Committee(40 Marks)	Project progress evaluation by guide(30 Marks)	Project Report (30)	Total Rounded (150)
7	13	E.GEEVARGHESE	23	23	31	27	27	131
	16	GEORGE M JOSE	23	23	32	26	27	131
	29	MUHAMMED ANSIL REZVI	23	23	32	25	27	130
	40	VYSAKH AS	23	23	31	26	27	130
8	15	FEBA BIJU	23	23	30	27	27	130
	23	JANET JAMES	23	23	30	27	27	130
	27	JOYEL RAJU KANNETH	23	23	30	26	27	129
	32	RIZWANA SALAM	23	23	29	27	27	129
9	22	HARIPRIYA BIJU	24	24	31	29	29	137
	24	JEEVAN JAMES	24	24	31	27	29	135
	30	NAVANEETHA S	24	24	34	29	29	140
	33	ROBIN THOMAS	24	24	32	27	28	135
10	1	ABDUL AZEEZ P Y	18	22	24	28	29	121
	9	ATHUL JOBY	18	22	24	28	29	121
	14	ELDHO BABU	18	22	28	28	29	125
	34	SANJU BIJU	18	22	23	28	29	120

Project Co-ordinator

Dr. Shine George
Ms.Sonu Johny
Mrs. Soumya Rani P Thomas

H.O.D CE
Dr. Shine George

ADVANCED PILING METHODS INCORPORATING FLY ASH TO IMPROVE DRILLING FLUID PROPERTIES

PROJECT REPORT

by

ANJANA BIJU (VJC19CE012)
ARUN RAJAN (VJC19CE018)
HANSA NOUSHAD (VJC19CE039)
JOBIN WILSON (VJC19CE048)

In partial fulfilment for the award of degree of

BACHELOR OF TECHNOLOGY

in

CIVIL ENGINEERING

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
THIRUVANANDAPURAM

under the guidance of

Mrs. AMRUTHA S
Assistant Professor, CE Dept.

DEPARTMENT OF CIVIL ENGINEERING

VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY, VAZHAKULAM

JUNE 2023

VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY, VAZHAKULAM

Department of Civil Engineering

BONAFIDE CERTIFICATE

This is to certify that the Project report entitled "**ADVANCED PILING METHODS INCORPORATING FLY ASH TO IMPROVE DRILLING FLUID PROPERTIES**" is a bonafide record of the work done by **ANJANA BIJU (VJC19CE012), ARUN RAJAN (VJC19CE018), HANSA NOUSHAD (VJC19CE039), JOBIN WILSON (VJC19CE048)** in partial fulfilment of the requirements for the award of the **Degree of Bachelor of Technology** in **Civil Engineering** of A P J Abdul Kalam Technological University (KTU).

Date: 19/06/2023
Place: **Vazhakulam**

VISWAJYOTHI COLLEGE OF ENGG. & TECHNOLOGY MUVATTUPUZHA KERALA VAZHAKULAM

Mrs. AMRUTHA S
Project Guide
Assistant Professor

Mrs. SOUMYA RANI P THOMAS
Project Coordinator
Assistant Professor
CE Dept., VJCET

Dr. SHINE GEORGE
HOD
CE Dept., VJCET